



RESTRICTED LIST

PERSONAL CARE PRODUCTS

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
1-(2,4,4-Trimethyl-1-cyclohexen-1-yl)-2-buten-1-one	Rose ketones	70266487	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
1-(2,4,4-Trimethyl-1-cyclohexen-1-yl)-2-buten-1-one	Rose ketones	70266487	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
1-(3,4-DIMETHOXYPHENYL)-4,4-DIMETHYL-1,3-PENTA NEDIENE	134DIMETHOXYPHENYL44DIMETHYL13PENTANEDIONE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 7% in rinseoff products (not applied to mucosa).	
1-(3,4-DIMETHOXYPHENYL)-4,4-DIMETHYL-1,3-PENTA NEDIENE	134DIMETHOXYPHENYL44DIMETHYL13PENTANEDIONE		The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
1-(3,4-DIMETHOXYPHENYL)-4,4-DIMETHYL-1,3-PENTA NEDIENE	134DIMETHOXYPHENYL44DIMETHYL13PENTANEDIONE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 7% in leaveon products (not applied to mucosa).	
1-ACETOXY-2-METHYLNAPHTHALENE	1ACETOXY2METHYLNAPHTHALENE	5697-02-9	The European Commission restricts this ingredient to a maximum concentration of 2.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products. When both 2MethylNaphthol and 1Acetoxy2Methylnaphthalene are present in a hair dye formulation, the maximum concentration on the head of 2MethylNaphthol should not exceed 2.0%.	
1-AZIRIDINEPROPANOIC ACID, 2-METHYL-, 2-ETHYL-2-((3-(2-METHYL-1-AZIRIDINYL)-1-OXOPROPYL)	Polyfunctional aziridine	64265572	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
1-BENZOPYRYLIUM, 3,5,7-TRIHYDROXY-2-(3,4,5-TRIHYDROXYPHENYL)-, CHLORIDE	1-BENZOPYRYLIUM, 3,5,7-TRIHYDROXY-2-(3,4,5-TRIHYDROXYPHENYL)-, CHLORIDE	528-53-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E163)	x
1-BENZOPYRYLIUM, 3,5,7-TRIHYDROXY-2-(4-HYDROXYPHENYL)-, CHLORIDE	1-BENZOPYRYLIUM, 3,5,7-TRIHYDROXY-2-(4-HYDROXYPHENYL)-, CHLORIDE	134-04-3	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E163)	x
1-HEXANOL, 2-ETHYL-, TETRAESTER WITH SILICIC ACID	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	155601-30-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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1-METHYL-4-METHYLVINYL-CYCLOHEXENE	1METHYL4METHYLVINILCYCLOHEXENE	7705148	The European Commission restricts this ingredient's peroxide content to less than 20 mmoles/L. Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
1-NAPHTHOL	1Naphthol	90153	The European Commission restricts this ingredient to a maximum concentration of 2% (or 1% calculated as free base) applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package: 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
1-NAPHTHOL	1Naphthol	90153	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3% in hair coloring products.	
1-NAPHTHOL	1NAPHTHOL	90153	Health Canada restricts the use of this ingredient to oxidizing coloring agents with a maximum concentration of 2% in hair dyes. When combined with hydrogen peroxide, the maximum concentration is 1%.	
1-PHENANTHRENEBUTANOIC ACID, 1,4,4A,4B,5,6,7,8,8A,9,10,10A-DODECAHYDRO-6-((3-O-(2-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
1-TRIMETHYL-2-CYCLOHEXENYL-1-PENTEN-3-ONE	Methyl ionone, mixed isomers	7779308	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in lip products, 2.59% in deodorants/antiperspirants, 10.56% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 31.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 16.67% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 50.72% in mouthwashes, breath sprays, and toothpastes, 5.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
1-TRIMETHYL-2-CYCLOHEXENYL-1-PENTEN-3-ONE	Methyl ionone, mixed isomers	7779308	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 5.4% Category 2) 1.6% Category 3) 32% Category 4) 30% Category 5A) 7.6% Category 5B) 7.6% Category 5C) 7.6% Category 5D) 7.6% Category 6) 18% Category 7A) 61% Category 7B) 61% Category 8) 3.2% Category 9) 59% Category 10A) 100% Category 10B) 100% Category 11A) 100% Category 11B) 100% Category 12) No Restriction; A level of up to 2% of Pseudo methyl ionones as an impurity in Methyl ionones is accepted.	
1,10-DECANEDIOL	1,10-DECANEDIOL	112-47-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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1,2-HEXANEDIOL	1,2Hexanediol	6920-22-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL-ETHANONE	1(1,2,3,4,5,6,7,8 Octahydro2,3,8,8tetramethyl2naphth alenyl) ethanone	54464572	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.34% in lip products, 1.73% in deodorants/antiperspirants, 7.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 21.4% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 11.2% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 34.2% in mouthwashes, breath sprays, and toothpastes, 3.6% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL-ETHANONE	1(1,2,3,4,5,6,7,8 Octahydro2,3,8,8tetramethyl2naphth alenyl) ethanone (OTNE)	54464572	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.41% Category 2) 1.1% Category 3) 0.41% Category 4) 20% Category 5A) 5.1% Category 5B) 0.56% Category 5C) 0.76% Category 5D) 0.19% Category 6) 0.0093% Category 7A) 0.67% Category 7B) 0.67% Category 8) 0.19% Category 9) 2.4% Category 10A) 2.4% Category 10B) 6.6% Category 11A) 0.19% Category 11B) 0.19% Category 12) No Restriction	
1,2,3,4,5,6,7,8a-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL-ETHANONE	1(1,2,3,4,5,6,7,8 Octahydro2,3,8,8tetramethyl2naphth alenyl) ethanone (OTNE)	68155679	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.41% Category 2) 1.1% Category 3) 0.41% Category 4) 20% Category 5A) 5.1% Category 5B) 0.56% Category 5C) 0.76% Category 5D) 0.19% Category 6) 0.0093% Category 7A) 0.67% Category 7B) 0.67% Category 8) 0.19% Category 9) 2.4% Category 10A) 2.4% Category 10B) 6.6% Category 11A) 0.19% Category 11B) 0.19% Category 12) No Restriction	
1,2,3,5,6,7,8,8a-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL-ETHANONE	1(1,2,3,4,5,6,7,8 Octahydro2,3,8,8tetramethyl2naphth alenyl) ethanone (OTNE)	68155668	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.41% Category 2) 1.1% Category 3) 0.41% Category 4) 20% Category 5A) 5.1% Category 5B) 0.56% Category 5C) 0.76% Category 5D) 0.19% Category 6) 0.0093% Category 7A) 0.67% Category 7B) 0.67% Category 8) 0.19% Category 9) 2.4% Category 10A) 2.4% Category 10B) 6.6% Category 11A) 0.19% Category 11B) 0.19% Category 12) No Restriction	
1,2,4- TRIHYDROXYBENZENE	1,2,4- TRIHYDROXYBENZENE	533-73-3	The EU prohibits this substance in hair dyes.	x
1,2,4- TRIHYDROXYBENZENE	1,2,4- TRIHYDROXYBENZENE	533-73-3	This substance must contain <0.1% hydroquinone based on the European Commission SCCS Opinion 1598/18.	x
1,3-BIS-(2,4-DIAMINOPHENOXY) PROPANE HCL	1,3Bis(2,4diaminophenoxy) Propane HCl	74918211	The European Commission restricts this ingredient to a maximum concentration of 1.2% calculated as free base (1.8% as tetrahydrochloride salt) applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'	

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1,3-BIS-(2,4-DIAMINOPHENOXY)PROPANE	1,3BIS(2,4DIAMINOPHENOXY)PROPANE	81892720	The European Commission restricts this ingredient to a maximum concentration of 1.2% calculated as free base (1.8% as tetrahydrochloride salt) applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'	
1,3-ISOBENZOFURANDIONE, HEXAHYDRO-	Hexahydrophthalic Anhydride	85-42-7	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
1,3-ISOBENZOFURANDIONE, HEXAHYDRO-	Hexahydrophthalic Anhydride	85-42-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
1,3,5-TRIS(OXIRANYLMETHYL)-1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE	Triglycidyl Isocyanurate	2451629	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
1,5-NAPHTHALENEDIOL	1,5NAPHTHALENEDIOL	83567	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
1,5-PENTANEDIOL	1,5-PENTANEDIOL	111-29-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	CAMPHOR	76222	Health Canada restricts this ingredient to a maximum concentration of 3%.	
10-HYDROXYDECANOIC ACID	10-HYDROXYDECANOIC ACID	1679-53-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
1H-PYRROLE-1-HEPTANOIC ACID, BETA,DELTA-DIHYDROXY-2-(4-FLUOROPHENYL)-5-(1-METHYLETHYL)-3-	1H-PYRROLE-1-HEPTANOIC ACID, BETA,DELTA-DIHYDROXY-2-(4-FLUOROPHENYL)-5-(1-METHYLETHYL)-3-	134523-03-8	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
2-ACETONAPHTHONE	Methyl βnaphthyl ketone	93083	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in leaveon products	
2-ACETONAPHTHONE	Methyl βnaphthyl ketone	93083	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.20% Category 2) 0.20% Category 3) 0.20% Category 4) 0.20% Category 5A) 0.20% Category 5B) 0.20% Category 5C) 0.20% Category 5D) 0.20% Category 6) 0.20% Category 7A) no restriction Category 7B) 0.20% Category 8) 0.20% Category 9) no restriction Category 10A) no restriction Category 10B) 0.20% Category 11A) no restriction Category 11B) 0.20% Category 12) no restriction	
2-AMINO-3-HYDROXYPYRIDINE	2AMINO3HYDROXYPYRIDINE	16867031	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in hair dye products. Required Warning: The European Commission requires the following on the product label/package: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
2-AMINO-3-HYDROXYPYRIDINE	2-AMINO-3-HYDROXYPYRIDINE	16867-03-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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2-AMINO-3-NITROPHENOL	2AMINO3NITROPHENOL	603-85-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in hair dyes.	
2-AMINO-4-HYDROXYETHYLAMINOANISOLE	2AMINO4HYDROXYETHYLAMINOANISOLE	83763477	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as sulphate) applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. This ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced any reaction after colouring hair or eyelashes, — has experienced	
2-AMINO-4-HYDROXYETHYLAMINOANISOLE	2AMINO4HYDROXYETHYLAMINOANISOLE	83763-47-7	The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE	2AMINO4HYDROXYETHYLAMINOANISOLE SULFATE	83763488	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as sulphate) applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. This ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced any reaction after colouring hair or eyelashes, — has experienced	
2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE	2AMINO4HYDROXYETHYLAMINOANISOLE SULFATE	83763-48-8	The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	

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2-AMINO-6-CHLORO-4-NITROPHENOL	2AMINO6CHLORO4NITROPHENOL	6358-09-4	The European Commission restricts this ingredient to a maximum concentration of 2.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 2.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
2-AMINO-6-CHLORO-4-NITROPHENOL	2AMINO6CHLORO4NITROPHENOL	6358-09-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in hair dyes.	
2-AMINO-6-CHLORO-4-NITROPHENOL HYDROCHLORIDE	2-AMINO-6-CHLORO-4-NITROPHENOL HYDROCHLORIDE		The Cosmetic Ingredient Review concludes this ingredient is safe for use in hair dye formulations at concentrations of up to 2.0%.	x
2-AMINOBUTANOL	2AMINOBUTANOL	96208	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
2-BROMO-2-NITROPROPANE-1,3-DIOL	2bromo2nitropropane1,3diol	52517	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%. Additionally, the CIR does not allow the use of this ingredient in cosmetic products under circumstances where its actions with amines or amides can result in the formation of nitrosamines or nitrosamides.	
2-BROMO-2-NITROPROPANE-1,3-DIOL	2BROMO2NITROPROPANE13DIOL	52517	Health Canada restricts this ingredient to a maximum concentration of 0.1%, and it cannot be used in formulations that contain amines or amides.	
2-BROMO-2-NITROPROPANE-1,3-DIOL	Bronopol	52517	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
2-BROMO-2-NITROPROPANE-1,3-DIOL	2-BROMO-2-NITROPROPANE-1,3-DIOL	52-51-7	Per COSING, the maximum concentration in RTU preparation is 0.10%. Avoid formation of nitrosamines.	x
2-Buten-1-one, 1-(2,2-dimethyl-6-methylenecyclohexyl)-	Rose ketones	35087491	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2-Buten-1-one, 1-(2,2-dimethyl-6-methylenecyclohexyl)-	Rose ketones	35087491	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	Rose ketones	35044689	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	Rose ketones	35044689	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
2-BUTEN-1-ONE, 1-(2,6,6-TRIMETHYL-1,3-CYCLOHEXADIEN-1-YL)-,	Rose ketones	23726934	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2-BUTEN-1-ONE, 1-(2,6,6-TRIMETHYL-1,3-CYCLOHEXADIEN-1-YL)-,	Rose ketones	23726934	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
2-BUTOXYETHANOL	Butoxyethanol	111762	The European Commission restricts this ingredient to a maximum concentration of 4.0% in oxidative hair dye products and 2.0% in nonoxidative hair dye products. Additionally, this solvent cannot be used in aerosol dispensers (sprays).	
2-BUTOXYETHANOL	Butoxyethanol	111-76-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% in hair and nail products.	
2-BUTOXYETHANOL	Butoxyethanol	111762	Health Canada restricts this ingredient to a maximum concentration of 10% in hair dyes and nail products, and the ingredient is not allowed in other product types.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2-CHLORO-6-ETHYLAMINO-4-NITROPHENOL	2CHLORO6ETHYLAMINO4NITROPH ENOL	131657788	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 3.0% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Can cause allergic reaction.'	
2-CHLORO-P-PHENYLENEDIAMINE	2CHLOROPPHENYLENEDIAMINE	615667	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
2-CHLORO-P-PHENYLENEDIAMINE SULFATE	2CHLOROPPHENYLENEDIAMINE SULFATE	6219712	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
2-Cyclopenten-1-one, 3-methyl-2-(pentyloxy)-	3Methyl2(pentyloxy)cyclopent2en1one	68922134	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.17% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.26% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.11% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2-Cyclopenten-1-one, 3-methyl-2-(pentyloxy)-	3Methyl2(pentyloxy)cyclopent2en1one	68922134	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.085% Category 2) 0.025% Category 3) 0.51% Category 4) 0.47% Category 5A) 0.12% Category 5B) 0.12% Category 5C) 0.12% Category 5D) 0.12% Category 6) 0.28% Category 7A) 0.96% Category 7B) 0.96% Category 8) 0.050% Category 9) 0.92% Category 10A) 3.3% Category 10B) 3.3% Category 11A) 1.8% Category 11B) 1.8% Category 12) No Restriction	
2-HEPTYLIDENECYCLOPENTANONE	2Heptylidene cyclopentan1one	39189747	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.72% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2-HEPTYLIDENECYCLOPENTANONE	2Heptylidene cyclopentanone	39189747	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077 % Category 2) 0.023 % Category 3) 0.46 % Category 4) 0.43 % Category 5A) 0.11 % Category 5B) 0.11 % Category 5C) 0.11 % Category 5D) 0.11 % Category 6) 0.25 % Category 7A) 0.88 % Category 7B) 0.88 % Category 8) 0.045 % Category 9) 0.84 % Category 10A) 3.0 % Category 10B) 3.0 % Category 11A) 1.7 % Category 11B) 1.7 % Category 12) No Restriction	
2-HEXYLIDENECYCLOPENTANONE	2HEXYLIDENECYCLOPENTANONE	17373896	The European Commission restricts this ingredient to a maximum concentration of 0.06% in nonoral products.	
2-HEXYLIDENECYCLOPENTANONE	αHexylidene cyclopentanone	17373896	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.01% in deodorants/antiperspirants, 0.05% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.06% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.06% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.2% in mouthwashes, breath sprays, and toothpastes, 0.02% in intimate wipes, and baby wipes, 0.06% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.06% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2-HEXYLIDENECYCLOPENTANONE	αHexylidene cyclopentanone	17373896	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.023 % Category 2) 0.0069 % Category 3) 0.14 % Category 4) 0.13 % Category 5A) 0.033 % Category 5B) 0.033 % Category 5C) 0.033 % Category 5D) 0.033 % Category 6) 0.076 % Category 7A) 0.26 % Category 7B) 0.26 % Category 8) 0.014 % Category 9) 0.25 % Category 10A) 0.90 % Category 10B) 0.90 % Category 11A) 0.50 % Category 11B) 0.50 % Category 12) No Restriction	
2-HYDROXYETHYL PICRAMIC ACID	2HYDROXYETHYL PICRAMIC ACID	99610727	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 2.0% in nonoxidative hair dye products.. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
2-HYDROXYETHYLAMINO-5-NITROANISOLE	2HYDROXYETHYLAMINO5NITROANISOLE	66095816	The European Commission restricts this ingredient to a maximum concentration of 0.2% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2-METHOXY-p-CRESOL	2METHOXY4METHYLPHENOL	93516	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.01% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.01% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.01% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.09% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.01% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2-METHOXY-p-CRESOL	2METHOXY4METHYLPHENOL	93516	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0085% Category 2) 0.0025% Category 3) 0.051% Category 4) 0.047% Category 5A) 0.012% Category 5B) 0.012% Category 5C) 0.012% Category 5D) 0.012% Category 6) 0.028% Category 7A) 0.096% Category 7B) 0.096% Category 8) 0.0050% Category 9) 0.092% Category 10A) 0.33% Category 10B) 0.33% Category 11A) 0.18% Category 11B) 0.18% Category 12) No Restriction	
2-METHYL-1-NAPHTHOL	2METHYL1NAPHTHOL	7469774	The European Commission restricts this ingredient to a maximum concentration of 2.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products. When both 2Methyl1Naphthol and 1Acetoxy2Methylnaphthalene are present in a hair dye formulation, the maximum concentration on the head of 2Methyl1Naphthol should not exceed 2.0%. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
2-METHYL-5-HYDROXYETHYLAMINOPHENOL	2METHYL5HYDROXYETHYLAMINOPHENOL	55302960	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced a reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Pinch eyes immediately if product comes into	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2-METHYL-5-HYDROXYETHYLAMINOPHENOL	2METHYL5HYDROXYETHYLAMINOPHENOL	55302-96-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
2-METHYL-5-HYDROXYETHYLAMINOPHENOL	2-METHYL-5-HYDROXYETHYLAMINOPHENOL	55302-96-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
2-METHYLRESORCINOL	2METHYLRESORCINOL	608253	The European Commission restricts this ingredient to a maximum concentration of 1.8% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.8% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
2-METHYLRESORCINOL	2METHYL RESORCINOL	608-25-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
2-METHYLRESORCINOL	2-METHYLRESORCINOL	608-25-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
2-NAPHTHACENECARBOXAMIDE, 4-(DIMETHYLAMINO)-1,4,4A,5,5A,6,11,12A-OCTAHYDRO-3,6,10,12,12A-	Tetracycline	60548	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
2-NAPHTHALENECARBOXYLIC ACID, 4-((5-CHLORO-4-METHYL-2-SULFOPHENYL)AZO)-3-HYDROXY-, BARIUM SALT	Red BBN	7585413	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
2-NAPHTHALENESULFONIC ACID, 5,7-DINITRO-8-HYDROXY-	2-NAPHTHALENESULFONIC ACID, 5,7-DINITRO-8-HYDROXY-	483-84-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
2-NITRO-P-PHENYLENEDIAMINE	2NITROPPHENYLENEDIAMINE	5307142	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
2-NONYN-1-AL DIMETHYLACETAL	2Nonylal dimethyl acetal	13257448	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.66% in lip products, 0.84% in deodorants/antiperspirants, 3.47% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 10.41% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 5.48% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 16.67% in mouthwashes, breath sprays, and toothpastes, 1.74% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2-NONYN-1-AL DIMETHYLACETAL	2Nonylal dimethyl acetal	13257448	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 1.8 % Category 2) 0.53 % Category 3) 11 % Category 4) 9.9 % Category 5A) 2.5 % Category 5B) 2.5 % Category 5C) 2.5 % Category 5D) 2.5 % Category 6) 5.8 % Category 7A) 20 % Category 7B) 20 % Category 8) 1.0 % Category 9) 19 % Category 10A) 69 % Category 10B) 69 % Category 11A) 38 % Category 11B) 38 % Category 12) No Restriction	
2-OLEAMIDO-1,3-OCTADECANEDIOL	2-OLEAMIDO-1,3-OCTADECANEDIOL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
2-PHENYLPHENOL	OPHENYLPHENOL	90-43-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in products meant to be applied to the mucosa.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2-PHENYLPHENOL	OPHENYLPHENOL	90-43-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in leaveon products (not applied to mucosa).	
2-PHENYLPHENOL	Biphenyl2ol	90437	Europe restricts this chemical: The use of ophenylphenol as a preservative should be allowed with a maximum concentration of 0,15 % (as phenol) in leaveon and 0,2 % (as phenol) in rinseoff cosmetic products. Contact with eyes should be avoided. The use of sodium ophenylphenate, potassium ophenylphenate and MEA ophenylphenate as preservatives should not be allowed.	
2-PHENYLPHENOL	2-PHENYLPHENOL	90-43-7	Per COSING, the use of o-phenylphenol as a preservative is allowed with a maximum concentration of 0.15 % (as phenol) in leave-on products and 0.2 % (as phenol) in rinse-off cosmetic products. Contact with eyes should be avoided. The use of sodium o-phenylphenate, potassium o-phenylphenate and MEA o-phenylphenate as preservatives is prohibited.	x
2-PICOLINIUM, 1-((4-AMINO-2-PROPYL-5-PYRIMIDINYL)METHYL)-, CHLORIDE, MONOHYDROCHLORIDE	Amprolium	137882	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
2-PYRIDINAMINE, 3-CHLORO-N-(3-CHLORO-2,6-DINITRO-4-(TRIFLUOROMETHYL)PHENYL)-5-	Fluazinam	79622596	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
2-PYRIDINECARBOXYLIC ACID, 5-((3-CHLOROPROPYL)THIO)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,	TOCOPHERYL ACETATE	85446-89-5	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(2-PROPENYLTHIO)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-90-8	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(3,4-DIBROMOBUTYL)-, 3,4-DIHYDRO-2,5-2,5,7,8-TETRAMETHYL-2-(4,8,	TOCOPHERYL ACETATE	85446-72-6	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(3,4-DICHLOROBUTYL)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-73-7	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(4-BROMOBUTYL)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-74-8	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(4-CHLOROBUTOXY)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-82-8	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(4-CHLOROPHENOXY)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-83-9	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(4-HYDROXYBUTYL)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-77-1	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(BUTYLTHIO)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-84-0	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-(PHENYLMETHYL)-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-76-0	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, 5-BUTYL-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	85446-70-4	This ingredient should not contain detectable levels of hydroquinone.	
2-PYRIDINECARBOXYLIC ACID, CHROMIUM SALT	Chromium Compounds	14639-25-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2,3-DIHYDRO-2,2,6-TRIMETHYLBENZALDEHYDE	2,6,6Trimethylcyclohex1,3dienyl methanal	116267	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.01% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.01% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.02% in mouthwashes, breath sprays, and toothpastes, 0% in intimate wipes, and baby wipes, 0.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.01% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2,3-DIHYDRO-2,2,6-TRIMETHYLBENZALDEHYDE	2,6,6Trimethylcyclohex1,3dienyl methanal	116267	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0022 % Category 2) 0.00066 % Category 3) 0.013 % Category 4) 0.012 % Category 5A) 0.0032 % Category 5B) 0.0032 % Category 5C) 0.0032 % Category 5D) 0.0032 % Category 6) 0.0073 % Category 7A) 0.025 % Category 7B) 0.025 % Category 8) 0.0013 % Category 9) 0.024 % Category 10A) 0.087 % Category 10B) 0.087 % Category 11A) 0.048 % Category 11B) 0.048 % Category 12) No Restriction	
2,4-DIAMINOPHENOL	2,4DIAMINOPHENOL	95863	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% as the free base.	
2,4-DIAMINOPHENOL HCL	2,4DIAMINOPHENOL HCL	137-09-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% as the free base.	
2,4-DIAMINOPHENOXYETHANOL HCL	2,4DIAMINOPHENOXYETHANOL HCL	66422955	The European Commission restricts this ingredient to a maximum concentration of 2.0% applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes. Additionally, this ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced any reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'"	
2,4-DIAMINOPHENOXYETHANOL HCL	2,4DIAMINOPHENOXYETHANOL HCL	66422-95-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
2,4-DIAMINOPHENOXYETHANOL HCL	2,4-DIAMINOPHENOXYETHANOL HCL	66422-95-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2,4-DIAMINOPHENOXYETHANOL SULFATE	2,4DIAMINOPHENOXYETHANOL SULFATE	70643208	The European Commission restricts this ingredient to a maximum concentration of 2.0% applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes. Additionally, this ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced any reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'"	
2,4-DIAMINOPHENOXYETHANOL SULFATE	2,4DIAMINOPHENOXYETHANOL SULFATE	70643-20-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	68039496	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	68039496	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.45% Category 2) 0.14% Category 3) 2.7% Category 4) 2.5% Category 5A) 0.64% Category 5B) 0.64% Category 5C) 0.64% Category 5D) 0.64% Category 6) 1.5% Category 7A) 5.2% Category 7B) 5.2% Category 8) 0.27% Category 9) 4.9% Category 10A) 18% Category 10B) 18% Category 11A) 9.8% Category 11B) 9.8% Category 12) No Restriction	
2,4-PENTANEDIONE, NICKEL(II) DERIV.	Nickel Compounds	3264-82-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2,4,6-TRIMETHYL-3-CYCLOHEXENECARBALDEHYDE	ISOCYCLOCITRAL	1423467	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.3% in deodorants/antiperspirants, 1.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 3.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 5.1% in mouthwashes, breath sprays, and toothpastes, 0.5% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
2,4,6-TRIMETHYL-3-CYCLOHEXENECARBALDEHYDE	ISOCYCLOCITRAL	1423467	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 3.2 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.76 % Category 5C) 0.76 % Category 5D) 0.76 % Category 6) 1.8 % Category 7A) 6.1 % Category 7B) 6.1 % Category 8) 0.32 % Category 9) 5.9 % Category 10A) 21 % Category 10B) 21 % Category 11A) 12 % Category 11B) 12 % Category 12) No Restriction	
2,6-DIHYDROXY-3,4-DIMETHYLPYRIDINE	2,6DIHYDROXY3,4DIMETHYLPYRIDINE	84540476	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in hair dye products. Required Warning: The European Commission requires the following on the product label/package: 'The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
2,6-DIHYDROXYETHYLAMINOTOLUENE	2,6DIHYDROXYETHYLAMINOTOLUENE	149330256	The European Commission restricts this ingredient to a maximum concentration of 5% (calculated as free base) applied to hair after mixing under oxidative conditions.	
2,6-DIMETHOXY-3,5-PYRIDINEDIAMINE HCL	2,6DIMETHOXY3,5PYRIDINEDIAMINE HCL	56216285	The European Commission restricts this ingredient to a maximum concentration of 0.25% (as hydrochloride) applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Can cause allergic reaction.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
2,7-NAPHTHALENEDIOL	2,7NAPHTHALENEDIOL	582172	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
2,8,9-TRIOXA-5-AZA-1-SILABICYCLO(3.3.3)UNDECANE, 1-ETHOXY-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
3-AMINO-2,4-DICHLOROPHENOL	3AMINO2,4DICHLOROPHENOL	61693423	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as hydrochloride) applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.5% (as hydrochloride) in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
3-AMINO-2,4-DICHLOROPHENOL	3AMINO2,4DICHLOROPHENOL	61693423		
3-AMINO-2,4-DICHLOROPHENOL HCL	3AMINO2,4DICHLOROPHENOL HCL	61693434	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as hydrochloride) applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.5% (as hydrochloride) in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
3-Buten-2-ol, 4-phenyl-	4PHENYL3BUTEN2OL	17488652	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.22 % Category 2) 0.066 % Category 3) 1.3 % Category 4) 1.2 % Category 5A) 0.32 % Category 5B) 0.32 % Category 5C) 0.32 % Category 5D) 0.32 % Category 6) 0.73 % Category 7A) 2.5 % Category 7B) 2.5 % Category 8) 0.13 % Category 9) 2.4 % Category 10A) 8.7 % Category 10B) 8.7 % Category 11A) 4.8 % Category 11B) 4.8 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
3-CARENE	3CARENE	13466789	The European Commission restricts this ingredient's peroxide content to less than 10 mmols/L (this limit applies to the substance and not the finished cosmetic product).	
3-CARENE	Carene	13466789	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
3-CARENE	Carene	13466789	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
3-CYCLOPENTENE-BUTANOL,B-2,2,3-TETRAMETH-METHYLENE	3-CYCLOPENTENE-BUTANOL,B-2,2,3-TETRAMETH-METHYLENE	104864-90-6	Table 1 of the RIFM fragrance ingredient safety assessment (Api et al. 2021) for this ingredient lists. Maximum Acceptable Concentrations in Finished Products Based on Non-reactive DST	x
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE	Isophorone Diisocyanate	4098719	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE	Isophorone Diisocyanate	4098719	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
3-METHYL BUTYL ACETATE	Isoamyl acetate	123922	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
3-METHYLAMINO-4-NITROPHENOXYETHANOL	3METHYLAMINO4NITROPHENOXYETHANOL	59820632	The European Commission restricts this ingredient to a maximum concentration of 0.15% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
3-METHYLAMINO-4-NITROPHENOXYETHANOL	3METHYLAMINO4NITROPHENOXYETHANOL	59820-63-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.15%.	
3-METHYLNON-2-ENENITRILE	3METHYLNON2ENENITRILE	53153665	The European Commission restricts this ingredient to a maximum concentration of 0.2%.	
3-NITRO-P-HYDROXYETHYLAMINOPHENOL	3NITROPHYDROXYETHYLAMINOPHENOL	65235316	The European Commission restricts this ingredient to a maximum concentration of 3.0% when applied to hair in oxidative hair dye products, and 1.85% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
3-NITRO-P-HYDROXYETHYLAMINOPHENOL	3NITROPHYDROXYETHYLAMINOPHENOL	65235-31-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% in hair coloring products.	
3-PHENYLBUTYRALDEHYDE	3Phenylbutanal	16251777	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
3-PHENYLBUTYRALDEHYDE	3Phenylbutanal	16251777	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.17 % Category 2) 0.069 % Category 3) 0.023 % Category 4) 0.44 % Category 5A) 0.24 % Category 5B) 0.023 % Category 5C) 0.034 % Category 5D) 0.0076 % Category 6) 0.011 % Category 7A) 0.023 % Category 7B) 0.023 % Category 8) 0.0076 % Category 9) 0.080 % Category 10A) 0.080 % Category 10B) 0.36 % Category 11A) 0.0076 % Category 11B) 0.0076 % Category 12) 9.6 %	
3-THUJANONE, (1S,4S,5R)-(+)-	Thujone	546805	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.21 % Category 3) 0.032 % Category 4) 1.4 % Category 5A) 0.095 % Category 5B) 0.032 % Category 5C) 0.016 % Category 5D) 0.0053 % Category 6) 0.095 % Category 7A) 0.24 % Category 7B) 0.24 % Category 8) 0.0053 % Category 9) 0.13 % Category 10A) 0.13 % Category 10B) 0.22 % Category 11A) 0.0053 % Category 11B) 0.0053 % Category 12) 9.5 %	
3-THUJANONE, (1S,4S,5R)-(+)-	Thujone	471158	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.21 % Category 3) 0.032 % Category 4) 1.4 % Category 5A) 0.095 % Category 5B) 0.032 % Category 5C) 0.016 % Category 5D) 0.0053 % Category 6) 0.095 % Category 7A) 0.24 % Category 7B) 0.24 % Category 8) 0.0053 % Category 9) 0.13 % Category 10A) 0.13 % Category 10B) 0.22 % Category 11A) 0.0053 % Category 11B) 0.0053 % Category 12) 9.5 %	
3-THUJANONE, (1S,4S,5R)-(+)-	Thujone	76231760	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.21 % Category 3) 0.032 % Category 4) 1.4 % Category 5A) 0.095 % Category 5B) 0.032 % Category 5C) 0.016 % Category 5D) 0.0053 % Category 6) 0.095 % Category 7A) 0.24 % Category 7B) 0.24 % Category 8) 0.0053 % Category 9) 0.13 % Category 10A) 0.13 % Category 10B) 0.22 % Category 11A) 0.0053 % Category 11B) 0.0053 % Category 12) 9.5 %	
3-THUJANONE, (1S,4S,5R)-(+)-	Thujone	1125128	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.21 % Category 3) 0.032 % Category 4) 1.4 % Category 5A) 0.095 % Category 5B) 0.032 % Category 5C) 0.016 % Category 5D) 0.0053 % Category 6) 0.095 % Category 7A) 0.24 % Category 7B) 0.24 % Category 8) 0.0053 % Category 9) 0.13 % Category 10A) 0.13 % Category 10B) 0.22 % Category 11A) 0.0053 % Category 11B) 0.0053 % Category 12) 9.5 %	
3,3-Dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol	3,3Dimethyl5(2,2,3trimethyl3cyclopenten1yl)4penten2ol	107898544	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.031 % Category 2) 0.057 % Category 3) 0.25 % Category 4) 1.1 % Category 5A) 0.27 % Category 5B) 0.27 % Category 5C) 0.27 % Category 5D) 0.091 % Category 6) 0.031 % Category 7A) 0.63 % Category 7B) 0.63 % Category 8) 0.091 % Category 9) 1.7 % Category 10A) 1.7 % Category 10B) 4.0 % Category 11A) 0.091 % Category 11B) 0.091 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
3,5-DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	68039485	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
3,5-DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	68039485	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.45% Category 2) 0.14% Category 3) 2.7% Category 4) 2.5% Category 5A) 0.64% Category 5B) 0.64% Category 5C) 0.64% Category 5D) 0.64% Category 6) 1.5% Category 7A) 5.2% Category 7B) 5.2% Category 8) 0.27% Category 9) 4.9% Category 10A) 18% Category 10B) 18% Category 11A) 9.8% Category 11B) 9.8% Category 12) No Restriction	
3,5,6-TRIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	ISOCYCLOCITRAL	67634075	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.3% in deodorants/antiperspirants, 1.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 3.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 5.1% in mouthwashes, breath sprays, and toothpastes, 0.5% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
3,5,6-TRIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	ISOCYCLOCITRAL	67634075	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 3.2 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.76 % Category 5C) 0.76 % Category 5D) 0.76 % Category 6) 1.8 % Category 7A) 6.1 % Category 7B) 6.1 % Category 8) 0.32 % Category 9) 5.9 % Category 10A) 21 % Category 10B) 21 % Category 11A) 12 % Category 11B) 12 % Category 12) No Restriction	
3,6-DIAZAOCTANETHYLENEDIAMIN	Triethylenetetramine	112243	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
3,6-DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	67801654	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
3,6-DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	67801654	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.45% Category 2) 0.14% Category 3) 2.7% Category 4) 2.5% Category 5A) 0.64% Category 5B) 0.64% Category 5C) 0.64% Category 5D) 0.64% Category 6) 1.5% Category 7A) 5.2% Category 7B) 5.2% Category 8) 0.27% Category 9) 4.9% Category 10A) 18% Category 10B) 18% Category 11A) 9.8% Category 11B) 9.8% Category 12) No Restriction	
3,7-DIMETHYL-3,6-OCTADIENAL	3,7Dimethyl3,6octadienal	55722593	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 0.030 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.12 % Category 5C) 0.030 % Category 5D) 0.010 % Category 6) 1.3 % Category 7A) 0.12 % Category 7B) 0.12 % Category 8) 0.010 % Category 9) 0.79 % Category 10A) 0.79 % Category 10B) 4.2 % Category 11A) 0.010 % Category 11B) 0.010 % Category 12) 53 %	
3,7-DIMETHYL-3,6-OCTADIENAL	3,7Dimethyl3,6octadienal	1754003	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 0.030 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.12 % Category 5C) 0.030 % Category 5D) 0.010 % Category 6) 1.3 % Category 7A) 0.12 % Category 7B) 0.12 % Category 8) 0.010 % Category 9) 0.79 % Category 10A) 0.79 % Category 10B) 4.2 % Category 11A) 0.010 % Category 11B) 0.010 % Category 12) 53 %	
3,7-DIMETHYL-3,6-OCTADIENAL	3,7Dimethyl3,6octadienal	72203986	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 0.030 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.12 % Category 5C) 0.030 % Category 5D) 0.010 % Category 6) 1.3 % Category 7A) 0.12 % Category 7B) 0.12 % Category 8) 0.010 % Category 9) 0.79 % Category 10A) 0.79 % Category 10B) 4.2 % Category 11A) 0.010 % Category 11B) 0.010 % Category 12) 53 %	
3,7-DIMETHYL-3,6-OCTADIENAL	3,7Dimethyl3,6octadienal	72203975	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 0.030 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.12 % Category 5C) 0.030 % Category 5D) 0.010 % Category 6) 1.3 % Category 7A) 0.12 % Category 7B) 0.12 % Category 8) 0.010 % Category 9) 0.79 % Category 10A) 0.79 % Category 10B) 4.2 % Category 11A) 0.010 % Category 11B) 0.010 % Category 12) 53 %	
3H-1,2,4-TRIAZOLE-3-THIONE, 1,2-DIHYDRO-5-AMINO-	3Amino5mercapto1,2,4triazole	16691433	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
3H-1,2,4-TRIAZOLE-3-THIONE, 1,2-DIHYDRO-5-AMINO-	3Amino5mercapto1,2,4triazole	16691433	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
4-(2-BETA-GLUCOPYRANOSILOXY) PROPOXY-2-HYDROXYBENZOPHENONE	42BETAGLUCOPYRANOSILOXYPROPOXY2HYDROXYBENZOPHENONE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in rinseoff products (not applied to mucosa).	
4-(2-BETA-GLUCOPYRANOSILOXY) PROPOXY-2-HYDROXYBENZOPHENONE	42BETAGLUCOPYRANOSILOXYPROPOXY2HYDROXYBENZOPHENONE		The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
4-(2-BETA-GLUCOPYRANOSILOXY) PROPOXY-2-HYDROXYBENZOPHENONE	42BETAGLUCOPYRANOSILOXYPROPOXY2HYDROXYBENZOPHENONE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in leaveon products (not applied to mucosa).	
4-AMINO-2-HYDROXYTOLUENE	4AMINO2HYDROXYTOLUENE	2835952	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes. Additionally, this ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced any reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'	
4-AMINO-2-HYDROXYTOLUENE	4AMINO2HYDROXYTOLUENE	2835952	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
4-AMINO-3-NITROPHENOL	4AMINO3NITROPHENOL	610811	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair in oxidative hair dye products, and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package: 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
4-AMINO-3-NITROPHENOL	4AMINO3NITROPHENOL	610-81-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9% in hair dyes.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
4-AMINO-M-CRESOL	4AMINOMCRESOL	2835996	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes. Additionally, this ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced any reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'"	
4-AMINO-M-CRESOL	4AMINOMCRESOL	2835996	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7% in oxidative and nonoxidative hair dyes.	
4-CHLORO-5 METHYL-2-(1-METHYLETHYL)-PHENOL	CHLOROTHYMOL	89-68-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
4-CHLORORESORCINOL	4CHLORORESORCINOL	95885	The European Commission restricts this ingredient to a maximum concentration of 2.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
4-CHLORORESORCINOL	4CHLORORESORCINOL	95885	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1% in hair dyes.	
4-ETHYLBENZALDEHYDE	pEthylbenzaldehyde	4748781	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.17% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.26% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.11% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
4-ETHYLBENZALDEHYDE	pEthylbenzaldehyde	4748781	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.085 % Category 2) 0.025 % Category 3) 0.51 % Category 4) 0.47 % Category 5A) 0.12 % Category 5B) 0.12 % Category 5C) 0.12 % Category 5D) 0.040 % Category 6) 0.28 % Category 7A) 0.96 % Category 7B) 0.96 % Category 8) 0.040 % Category 9) 0.92 % Category 10A) 0.92 % Category 10B) 3.3 % Category 11A) 0.040 % Category 11B) 0.040 % Category 12) No Restriction	
4-HYDROXYBENZOIC ACID	4-HYDROXYBENZOIC ACID	99-96-7	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
4-HYDROXYPROPYLAMINO-3-NITROPHENOL	4HYDROXYPROPYLAMINO3NITROPHENOL	92952813	The European Commission restricts this ingredient to a maximum concentration of 2.6% (calculated as free base) applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 2.6% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
4-HYDROXYPROPYLAMINO-3-NITROPHENOL	4HYDROXYPROPYLAMINO3NITROPHENOL	92952-81-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2.6% in hair dyes.	
4-METHYLBENZALDEHYDE	o,m,pTolualdehydes and their mixtures	104870	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.17% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.26% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
4-METHYLBENZALDEHYDE	o,m,pTolualdehydes and their mixtures	104870	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.085 % Category 2) 0.025 % Category 3) 0.51 % Category 4) 0.47 % Category 5A) 0.12 % Category 5B) 0.12 % Category 5C) 0.12 % Category 5D) 0.12 % Category 6) 0.28 % Category 7A) 0.96 % Category 7B) 0.96 % Category 8) 0.050 % Category 9) 0.92 % Category 10A) 3.3 % Category 10B) 3.3 % Category 11A) 1.8 % Category 11B) 1.8 % Category 12) No Restriction	
4-NITRO-M-PHENYLENEDIAMINE	4NITROMPHENYLENEDIAMINE	5131-58-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
4-NITRO-O-PHENYLENEDIAMINE	4NITROOPHENYLENEDIAMINE	99569	The European Commission restricts this ingredient to a maximum concentration of 0.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions.'	
4-NITROPHENYL AMINOETHYLUREA	4NITROPHENYL AMINOETHYLUREA	27080428	The European Commission restricts this ingredient to a maximum concentration of 0.25% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 0.5% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
4-OCTADECENOIC ACID, 5,9,13,17-TETRAMETHYL-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	72614-65-4	This ingredient should not contain detectable levels of hydroquinone.	
4-tert-BUTYLDIHYDROCINNAMALDEHYDE	4TERTBUTYLDIHYDROCINNAMALDEHYDE	18127010	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
4-tert-BUTYLDIHYDROCINNAMALDEHYDE	ptertButyldihydrocinnamaldehyde (Bourgeonal)	18127010	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.2% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.3% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 0.6% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.6% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
4-tert-BUTYLDIHYDROCINNAMALDEHYDE	ptertButyldihydrocinnamaldehyde	18127010	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0041% Category 2) 0.025% Category 3) 0.025% Category 4) 0.47% Category 5A) 0.12% Category 5B) 0.029% Category 5C) 0.037% Category 5D) 0.0096% Category 6) 0.087% Category 7A) 0.029% Category 7B) 0.029% Category 8) 0.0096% Category 9) 0.099% Category 10A) 0.099% Category 10B) 0.24% Category 11A) 0.0096% Category 11B) 0.0096% Category 12) 6.9%	
4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID, 3,3-DIMETHYL-6-((((4-ETHYL-2,3-DIOXO-1-	Piperacillin	61477961	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
4,6,10-DODECATRIEN-3-ONE, 7,11-DIMETHYL-	711DIMETHYL4610DODECATRIEN3ONE	26651967	Health Canada restricts this ingredient to a maximum concentration of 2% (as an impurity in methylionones)	
4,8-DECADIENOIC ACID, 5,9-DIMETHYL-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	72614-62-1	This ingredient should not contain detectable levels of hydroquinone.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
4,8-DIMETHYL-4,9-DECADIENAL	4,8Dimethyl4,9decadienal	71077311	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.042% Category 2) 0.013% Category 3) 0.25% Category 4) 0.24% Category 5A) 0.060% Category 5B) 0.060% Category 5C) 0.060% Category 5D) 0.020% Category 6) 0.14% Category 7A) 0.48% Category 7B) 0.48% Category 8) 0.020% Category 9) 0.46% Category 10A) 0.46% Category 10B) 1.7% Category 11A) 0.020% Category 11B) 0.020% Category 12) No Restriction	
4,8,12-TETRADECATRIENOIC ACID, 5,9,13-TRIMETHYL-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-	TOCOPHERYL ACETATE	72614-64-3	This ingredient should not contain detectable levels of hydroquinone.	
4,8,12,16,20,24,28,32,36-OCTATRIACONTANONAENOIC ACID, 5,9,13,17,21,25,29,33,37-NONAMETHYL-,3,	TOCOPHERYL ACETATE	72614-67-6	This ingredient should not contain detectable levels of hydroquinone.	
4,8,12,16,20,24,28,32,36,40-DOTETRACONTADECAENOIC ACID, 5,9,13,17,21,25,29,33,37,41-	TOCOPHERYL ACETATE	72614-66-5	This ingredient should not contain detectable levels of hydroquinone.	
5-AMINO-4-CHLORO-O-CRESOL	5AMINO4CHLOROOCRESOL	110102-86-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in oxidative and nonoxidative hair dyes.	
5-AMINO-4-CHLORO-O-CRESOL HCL	5AMINO4CHLOROOCRESOL HCL	110102857	The European Commission restricts this ingredient to a maximum concentration of 1.5% (calculated as hydrochloride) when applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
5-AMINO-6-CHLORO-O-CRESOL	5AMINO6CHLOROOCRESOL	84540501	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in oxidative and nonoxidative hair dyes.	
5-BROMO-5-NITRO-1,3-DIOXANE	5bromo5nitro1,3dioxane	30007477	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%. Additionally, the CIR does not allow the use of this ingredient in cosmetic products under circumstances where its actions with amines or amides can result in the formation of nitrosamines or nitrosamides.	
5-BROMO-5-NITRO-1,3-DIOXANE	5BROMO5NITRO13DIOXANE	30007477	Health Canada restricts this ingredient to a maximum concentration of 0.1%, and it cannot be used in formulations that contain amines or amides.	
5-BROMO-5-NITRO-1,3-DIOXANE	5bromo5nitro1,3dioxane	30007477	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10% in rinseoff products	
5-BROMO-5-NITRO-1,3-DIOXANE	5-BROMO-5-NITRO-1,3-DIOXANE	30007-47-7	Per COSING, the maximum concentration in RTU preparation is 0.10%. Avoid formation of nitrosamines.	x
6-AMINO-M-CRESOL	6AMINOMCRESOL	2835985	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2.4% in oxidative and nonoxidative hair dyes.	
6-AMINO-O-CRESOL	6AMINOOCRESOL	17672229	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7% in oxidative hair dyes.	
6-HYDROXYINDOLE	6hydroxyindole		The European Commission restricts this ingredient to a maximum concentration of 0.5% in hair dye products after mixing under oxidative conditions." Warning: "The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
6-METHOXY-2-METHYLAMINO-3-AMINOPYRIDINE HCL	6METHOXY2METHYLAMINO3AMINOPYRIDINE HCL	90817348	The European Commission restricts this ingredient to a maximum concentration of 0.68% as free base (1.0% as dihydrochloride) applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes, and 0.68% as free base (1.0% as dihydrochloride) in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. This ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of nonoxidative hair dyes: 'Can cause allergic reactions.' Lastly, the European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'This product can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'	
6-METHYL COUMARIN	6METHYL COUMARIN	92488	The European Commission restricts this ingredient to a maximum concentration of 0.003%.	
6-Octenal, 3,7-dimethyl-, (3S)-	CITRONELLAL	5949053	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.41 % Category 2) 0.16 % Category 3) 0.026 % Category 4) 0.49 % Category 5A) 0.33 % Category 5B) 0.051 % Category 5C) 0.10 % Category 5D) 0.017 % Category 6) 0.82 % Category 7A) 0.077 % Category 7B) 0.077 % Category 8) 0.017 % Category 9) 1.4 % Category 10A) 1.4 % Category 10B) 2.3 % Category 11A) 0.017 % Category 11B) 0.017 % Category 12) No Restriction	
65-85-0	Benzoic acid	65850	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
65-85-0	Benzoic acid and its sodium salt		(*) The European Commission restricts this ingredient to a maximum concentration of 2.5% (as acid) in rinseoff products (except oral care products), 1.7% (as acid) in oral care products, and 0.5% (as acid) in leaveon products	
7-ETHYLBICYCLOOXAZOLIDINE	5Ethyl3,7dioxalazabicyclo[3.3.0]octane	7747355	(*) The European Commission restricts this ingredient to a maximum concentration of 0.30%	
7-ETHYLBICYCLOOXAZOLIDINE	7-ETHYLBICYCLOOXAZOLIDINE	7747-35-5	Per COSING, the maximum concentration in RTU preparation 0.30%. Prohibited for use in oral products and in products applied on mucous membranes.	x
7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE	Furocoumarins	66977	Health Canada restricts this ingredient to a maximum concentration of 1 mg/kg in sun tanning products.	
8-DECENOIC ACID, 5,9-DIMETHYL-, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-TRIMETHYLTRIDECYL)-	TOCOPHERYL ACETATE	72614-63-2	This ingredient should not contain detectable levels of hydroquinone.	
8-Hydroxyquinoline	8Hydroxyquinoline	148243	Health Canada restricts this ingredient to a maximum concentration of 0.3% as stabilizers for hydrogen peroxide in rinseoff haircare preparations and 0.03% in leaveon hair products.	
8-HYDROXYQUINOLINE SULFATE	8Hydroxyquinoline sulfate	134316	The European Commission restricts this ingredient to a maximum concentration of 0.3% (as base) in hair rinseoff products and 0.03% (as base) in hair leaveon products, both as a stabilizer for hydrogen peroxide.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
8-HYDROXYQUINOLINE SULFATE	OXYQUINOLINE SULFATE	134-31-6	The Cosmetic Ingredient Review restricts the use of this ingredient to a stabilizer for hydrogen peroxide in rinseoff hair products.	
8-HYDROXYQUINOLINE SULFATE	8HYDROXYQUINOLINESULFATE	134316	Health Canada restricts this ingredient to a maximum concentration of 0.3% as stabilizers for hydrogen peroxide in rinseoff haircare preparations and 0.03% in leaveon hair products.	
8-HYDROXYQUINOLINE SULFATE	Bis(8hydroxyquinolinium) sulphate	134316	Europe restricts this chemical: Restricted use: Stabilizer for hydrogen peroxide in rinseoff hair products 0.3% as base; Stabilizer for hydrogen peroxide in leaveon hair products 0.03% as base	
8'-APO-BETA-CAROTENAL	8'-APO-BETA-CAROTENAL	1107-26-2	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 160e)	x
80-54-6	LILIAL	80546	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
80-54-6	ptertButylamethylhydrocinnamic aldehyde (BMHCA)	80546	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.12% in lip products, 0.15% in deodorants/antiperspirants, 0.62% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.86% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.98% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.97% in mouthwashes, breath sprays, and toothpastes, 0.31% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ABIES (FIR) NEEDLE OIL	ABIES SIBIRICA (SIBERIAN FIR) OIL	8021292	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES ALBA LEAF OIL	ABIES ALBA LEAF OIL	8021270	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES ALBA LEAF OIL	ABIES PECTINATA OIL	8021270	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES BALSAMEA (BALSAM)	ABIES BALSAMEA (BALSAM)	8007474	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES BALSAMEA (BALSAM) EXTRACT	ABIES BALSAMEA (BALSAM)	8007474	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES BALSAMEA (BALSAM) EXTRACT	ABIES BALSAMEA (BALSAM) EXTRACT	85085343	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES BALSAMEA (BALSAM) EXTRACT	ABIES BALSAMEA (BALSAM) NEEDLE OIL	85085343	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES BALSAMEA (BALSAM) NEEDLE OIL	ABIES BALSAMEA (BALSAM) NEEDLE OIL	85085343	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ABIES PECTINATA BARK/LEAF EXTRACT	ABIES PECTINATA BARK/LEAF EXTRACT	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA EXTRACT	ABIES PECTINATA EXTRACT	90028765	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA NEEDLE EXTRACT	ABIES PECTINATA NEEDLE EXTRACT	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA NEEDLE EXTRACT	ABIES PECTINATA NEEDLE OIL	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA NEEDLE EXTRACT	ABIES PECTINATA BARK/LEAF EXTRACT	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA NEEDLE OIL	ABIES PECTINATA NEEDLE OIL	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA OIL	ABIES PECTINATA OIL	8021270	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA OIL	ABIES PECTINATA NEEDLE EXTRACT	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA OIL	ABIES PECTINATA NEEDLE OIL	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES PECTINATA OIL	ABIES PECTINATA BARK/LEAF EXTRACT	92128342	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES SIBIRICA (SIBERIAN FIR) OIL	ABIES SIBIRICA (SIBERIAN FIR) OIL	8021292	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES SIBIRICA (SIBERIAN FIR) OIL	ABIES SIBIRICA NEEDLE EXTRACT	91697891	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES SIBIRICA (SIBERIAN FIR) OIL	ABIES SIBIRICA NEEDLE OIL	91697891	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES SIBIRICA NEEDLE EXTRACT	ABIES SIBIRICA NEEDLE EXTRACT	91697891	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES SIBIRICA NEEDLE EXTRACT	ABIES SIBIRICA NEEDLE OIL	91697891	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABIES SIBIRICA NEEDLE OIL	ABIES SIBIRICA NEEDLE OIL	91697891	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ABSORPTION OILS, BICYCLO AROM. AND HETEROCYCLIC HYDROCARBON FRACTION	Absorption oils, bicyclo arom. and heterocyclic hydrocarbon fraction	101316454	The European Commission bans this ingredient from use in cosmetics if it contains over 0.005% w/w benzo[a]pyrene	
ACACIA CATECHU GUM	ACACIA CATECHU GUM	8001-76-1	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACACIA CONCINNA FRUIT EXTRACT	ACACIA CONCINNA FRUIT EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA DEALBATA LEAF EXTRACT	ACACIA DEALBATA LEAF EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA DECURRENS EXTRACT	ACACIA DECURRENS EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA FARNESIANA EXTRACT	ACACIA FARNESIANA FLOWER/STEM EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA FARNESIANA FLOWER WAX	ACACIA FARNESIANA FLOWER WAX		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA FARNESIANA FLOWER/STEM EXTRACT	ACACIA FARNESIANA FLOWER/STEM EXTRACT	89958-31-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA FARNESIANA GUM	ACACIA FARNESIANA GUM	9000-01-5	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA FARNESIANA GUM	Gum Acacia	9000-01-5	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ACACIA FARNESIANA GUM	Gum Arabic	2591766	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ACACIA SENEGAL EXTRACT	ACACIA SENEGAL EXTRACT	97659-43-3	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA SENEGAL GUM	ACACIA SENEGAL GUM	9000-01-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACACIA SENEGAL GUM	Gum Acacia	9000-01-5	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ACACIA SENEGAL GUM	Gum Arabic	2591766	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ACACIA SENEGAL GUM	Gum Arabic	90000105	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ACACIA SENEGAL GUM EXTRACT	ACACIA SENEGAL GUM EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.001%.	
ACACIA SENEGAL GUM EXTRACT	ACACIA SENEGAL GUM EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/Pesticide residue, arsenic, heavy metals, and lead.	
ACETAMIDE MEA	Acetamide MEA (amended)	142-26-7	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
ACETIC ACID	Glacial Acetic Acid	64197	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACETIC ACID	Glacial Acetic Acid	64197	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ACETIC ACID	ACETIC ACID	64-19-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, ALUMINUM SODIUM SALT	Aluminum Compounds	29507-62-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, ALUMINUM(III) COMPLEX	Aluminum Compounds	17100-11-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, CHROMIUM(III) COMPLEX	Chromium Compounds	17099-80-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT, COPPER COMPLEX, TRIHYDRATE	ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT, COPPER COMPLEX, TRIHYDRATE	73637-19-1	Per the U.S. FDA., disodium EDTA-copper shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Total copper, not less than 13.5 percent. Total (ethylene-dinitrilo) tetracetic acid, not less than 62.5 percent. Free copper, not more than 100 parts per million. Free disodium salt of (ethylene-dinitrilo) tetraacetic acid, not more than 1.0 percent. Moisture, not more than 15 percent. Water insoluble matter, not more than 0.2 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million.	x
ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, NICKEL(II) COMPLEX	Nickel Compounds	25481-21-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatrione	Acetic, anhydride, reaction products with 1,5,10trimethyl1,5,9cyclododecatrione	144020224	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.16% in lip products, 0.2% in deodorants/antiperspirants, 0.83% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.49% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.31% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 3.99% in mouthwashes, breath sprays, and toothpastes, 0.42% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatrione	Acetic acid, anhydride, reaction products with 1,5,10trimethyl1,5,9cyclododecatrione	144020224	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00016 % Category 2) 0.13 % Category 3) 0.40 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.52 % Category 5C) 0.60 % Category 5D) 0.17 % Category 6) 0.00016 % Category 7A) 0.87 % Category 7B) 0.87 % Category 8) 0.17 % Category 9) 2.2 % %Category 10A) 2.2 % Category 10B) 4.4 % Category 11A) 0.17 % Category 11B) 0.17 % Category 12) No Restriction	
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatrione	Acetic acid, anhydride, reaction products with 1,5,10trimethyl1,5,9cyclododecatrione	28371995	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00016 % Category 2) 0.13 % Category 3) 0.40 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.52 % Category 5C) 0.60 % Category 5D) 0.17 % Category 6) 0.00016 % Category 7A) 0.87 % Category 7B) 0.87 % Category 8) 0.17 % Category 9) 2.2 % %Category 10A) 2.2 % Category 10B) 4.4 % Category 11A) 0.17 % Category 11B) 0.17 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACETIC ACID, CHROMIUM(2+) SALT, HYDRATE	Chromium Compounds	628-52-4	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ACETIC ACID, CHROMIUM(3+) SALT, HYDRATE	Chromium Compounds	25013-82-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ACETIC ACID, FLUORO-, ALUMINUM SALT	Aluminum Compounds	63905-85-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ACETIC ACID, GLACIAL	Glacial Acetic Acid	64197	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens.	
ACETOHYDROXAMIC ACID, N-FLUOREN-2-YL-, NICKEL(2+) COMPLEX	Nickel Compounds	14751-76-9	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ACETYL GLUTAMINE	ACETYL GLUTAMINE	2490-97-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%.	
ACETYL HEPTAPEPTIDE-4	ACETYL HEPTAPEPTIDE4		The Cosmetic Ingredient review has determined that a similar group of ingredients are safe as used up to a concentration of 0.002%.	
ACETYL METHIONINE	ACETYL METHIONINE	65-82-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.00001%.	
ACETYL TRIBUTYL CITRATE	Acetyl tributyl citrate	77-90-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
ACETYL TRIETHYL CITRATE	ACETYL TRIETHYL CITRATE	77894	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
ACETYL TYROSINE	ACETYL TYROSINE	537-55-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.3%. The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
ACETYL-CYSTEINE	ACETYL CYSTEINE	616-91-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.1%.	
ACETYLATED LANOLIN	ACETYLATED LANOLIN	61788-48-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
ACETYLATED LANOLIN ALCOHOL	ACETYLATED LANOLIN ALCOHOL	61788496	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 16%.	
ACID BLACK 52	Chromium Compounds	5610-64-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090	3844-45-9	This substance must contain less than: 100 ppm manganese, 2 ppm lead, 1 ppm mercury, 1 ppm cadmium, and 100 ppm unsulfonated primary aromatic amines.	
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090	3844-45-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4)	Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4)	3844-45-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4)	Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4)	3844-45-9	Per COSING, the maximum concentration in ready to use preparation is 0.50%	x
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4) Lake	CI 42090	3844-45-9	This substance must contain less than: 100 ppm manganese, 2 ppm lead, 1 ppm mercury, 1 ppm cadmium, and 100 ppm unsulfonated primary aromatic amines.	
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4) Lake	CI 42090	3844-45-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4) Lake	Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4) Lake	3844-45-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4) Lake	Acid Blue 9 (Uncertified FD&C Blue No. 1 or D&C Blue No. 4) Lake	3844-45-9	Per COSING, the maximum concentration in ready to use preparation is 0.50%	x
Acid Blue CI 42045	Acid Blue CI 42045	129-17-9	Per COSING, prohibited for use in products applied on mucous membranes.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Acid Green 25 (Uncertified D&C Green No. 5)	D&C Green No. 5	4403-90-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Green 25 (Uncertified D&C Green No. 5)	D&C Green 5	4403-90-1	This substance must contain <0.1 ppm lead, <0.2 ppm arsenic, <0.2 ppm mercury, and may not contain detectable levels of 1,4diaminoanthraquinone.	
Acid Orange 24 (Uncertified D&C Brown No. 1)	D&C Brown No. 1	1320-07-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Orange 24 (Uncertified D&C Brown No. 1)	Acid Orange 24 (Uncertified D&C Brown No. 1)	1320-07-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
ACID ORANGE 3	ACID ORANGE 3	6373746	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% in hair dyes.	
Acid Orange 7 (Uncertified D&C Orange No. 4)	D&C Orange No. 4	633-96-5	The European Commission prohibits use of this substance in eye products.	
Acid Orange 7 (Uncertified D&C Orange No. 4)	D&C Orange no 4	633-96-5	This substance must contain <0.06% 2naphthol and <0.12% sodium sulfanilate.	
Acid Orange 7 (Uncertified D&C Orange No. 4)	Acid Orange 7 (Uncertified D&C Orange No. 4)	633-96-5	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
ACID RED 18 ALUMINUM LAKE	ACID RED 18 ALUMINUM LAKE	12227644	The European Commission restricts this ingredient to a maximum concentration of 0.5% in nonoxidative hair dye products.	
ACID RED 195	Sodium 4[(4,5dihydro3methyl5oxo1phenyl1H pyrazol4yl)azo]3hydroxynaphthalene 1sulphonate	12220245	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
ACID RED 195	ACID RED 195	12220-24-5	Per COSING, prohibited for use in products applied on mucous membranes.	x
Acid Red 33 (Uncertified D&C Red No. 33)	D&C Red No. 33	3567-66-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Red 33 (Uncertified D&C Red No. 33)	D&C Red No. 33	3567-66-6	This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
Acid Red 33 (Uncertified D&C Red No. 33)	D&C Red No. 33	3567-66-6	This substance must contain <70 ppb 1,3diphenyltrizene, <10 ppm 4aniline, <175 ppb 4aminobiphenyl, and <0.5 ppm 2aminobiphenyl.	
Acid Red 33 (Uncertified D&C Red No. 33)	Acid Red 33 (Uncertified D&C Red No. 33)	3567-66-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Red 87 or Solvent Red 43 (Uncertified D&C Red No. 21 or 22)	CI 45380	17372-87-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Red 87 or Solvent Red 43 (Uncertified D&C Red No. 21 or 22)	Acid Red 87 or Solvent Red 43 (Uncertified D&C Red No. 21 or 22)	17372-87-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Red 87 or Solvent Red 43 (Uncertified D&C Red No. 21 or 22)	Acid Red 87 or Solvent Red 43 (Uncertified D&C Red No. 21 or 22)	17372-87-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Violet 43 (Uncertified Ext. D&C Violet No. 2)	Sodium 4[(9,10dihydro4hydroxy9,10dioxo1ant hryl)amino]toluene3sulphonate	4430-18-6	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
Acid Violet 43 (Uncertified Ext. D&C Violet No. 2)	Color additives subject to batch certification	4430-18-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Acid Violet 43 (Uncertified Ext. D&C Violet No. 2)	Ext. D&C Violet No. 2	4430-18-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Violet 43 (Uncertified Ext. D&C Violet No. 2)	Acid Violet 43 (Uncertified Ext. D&C Violet No. 2)	4430-18-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Violet 43 (Uncertified Ext. D&C Violet No. 2)	Acid Violet 43 (Uncertified Ext. D&C Violet No. 2)	4430-18-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Acid Yellow 1 (Uncertified Ext. D&C Yellow No. 7)	Ext. D&C Yellow No. 7	846-70-8	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Yellow 1 (Uncertified Ext. D&C Yellow No. 7)	Ext. D&C Yellow No. 7	846-70-8	The European Commission prohibits use of this substance in eye products.	
Acid Yellow 1 (Uncertified Ext. D&C Yellow No. 7)	Ext. D&C Yellow No. 7	846-70-8	This substance must contain <10 ppm 1naphthol, <20 ppm 2,4dinitro1naphthol, and <10 ppm lead.	
Acid Yellow 1 (Uncertified Ext. D&C Yellow No. 7)	Acid Yellow 1 (Uncertified Ext. D&C Yellow No. 7)	846-70-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Yellow 1 (Uncertified Ext. D&C Yellow No. 7)	Acid Yellow 1 (Uncertified Ext. D&C Yellow No. 7)	846-70-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Yellow 23 (Uncertified FD&C Yellow No. 5)	FD&C Yellow 5		This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine, <5 ppb 2aminobiphenyl, and <5 ppb 1naphthylamine.	
Acid Yellow 23 (Uncertified FD&C Yellow No. 5)	FD&C Yellow 5		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Yellow 23 (Uncertified FD&C Yellow No. 5) Lake	FD&C Yellow 5		This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine, <5 ppb 2aminobiphenyl, and <5 ppb 1naphthylamine.	
Acid Yellow 23 (Uncertified FD&C Yellow No. 5) Lake	FD&C Yellow 5		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Yellow 3 (Uncertified D&C Yellow No. 10)	D&C Yellow No. 10	38615-46-2	This substance must contain <2ppm lead, <1ppm cadmium, <50ppm zinc, and <0.01% aniline.	
Acid Yellow 3 (Uncertified D&C Yellow No. 10)	Acid Yellow 3 (Uncertified D&C Yellow No. 10)	38615-46-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Yellow 3 (Uncertified D&C Yellow No. 10)	Acid Yellow 3 (Uncertified D&C Yellow No. 10)	38615-46-2	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 104)	x
Acid Yellow 3 (Uncertified D&C Yellow No. 10) Lake	D&C Yellow No. 10	68814-04-0	This substance must contain <2ppm lead, <1ppm cadmium, <50ppm zinc, and <0.01% aniline.	
Acid Yellow 3 (Uncertified D&C Yellow No. 10) Lake	Acid Yellow 3 (Uncertified D&C Yellow No. 10) Lake	68814-04-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Yellow 73 (Uncertified D&C Yellow No. 7 or 8)	Color additives subject to batch certification	518-45-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Acid Yellow 73 (Uncertified D&C Yellow No. 7 or 8)	CI 45350	518-45-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Acid Yellow 73 (Uncertified D&C Yellow No. 7 or 8)	Acid Yellow 73 (Uncertified D&C Yellow No. 7 or 8)	518-45-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Acid Yellow 73 (Uncertified D&C Yellow No. 7 or 8)	Acid Yellow 73 (Uncertified D&C Yellow No. 7 or 8)	518-45-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
ACORUS CALAMUS	ACORUS CALAMUS		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACORUS CALAMUS	ACORUS CALAMUS		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ACORUS CALAMUS (SWEET FLAG) ROOT EXTRACT	ACORUS CALAMUS (SWEET FLAG) ROOT EXTRACT	84775393	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ACORUS CALAMUS (SWEET FLAG) ROOT EXTRACT	ACORUS CALAMUS (SWEET FLAG) ROOT EXTRACT	84775393	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ACORUS CALAMUS ROOT EXTRACT HYDROGENATED	ACORUS CALAMUS ROOT EXTRACT HYDROGENATED	85480473	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ACORUS CALAMUS ROOT EXTRACT HYDROGENATED	ACORUS CALAMUS ROOT EXTRACT HYDROGENATED	85480473	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ACRYLAMIDE/ AMMONIUM ACRYLATE COPOLYMER	ACRYLAMIDE/ AMMONIUM ACRYLATE COPOLYMER	26100470	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDE/ SODIUM ACRYLATE COPOLYMER	ACRYLAMIDE/ SODIUM ACRYLATE COPOLYMER	25085023	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDE/ SODIUM ACRYLOYLDIMETHYLTAURATE COPOLYMER	ACRYLAMIDE/ SODIUM ACRYLOYLDIMETHYLTAURATE COPOLYMER	38193601	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDE/ SODIUM ACRYLOYLDIMETHYLTAURATE COPOLYMER	ACRYLAMIDE/SODIUM ACRYLOYLDIMETHYLTAURATE COPOLYMER	38193-60-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3.2%	
ACRYLAMIDE/ETHALKONIUM CHLORIDE ACRYLATE COPOLYMER	ACRYLAMIDE/ETHALKONIUM CHLORIDE ACRYLATE COPOLYMER	74153518	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	

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ACRYLAMIDE/ETHYLTRIMONIUM CHLORIDE ACRYLATE/ETHALKONIUM CHLORIDE ACRYLATE COPOLYMER	ACRYLAMIDE/ETHYLTRIMONIUM CHLORIDE ACRYLATE/ETHALKONIUM CHLORIDE ACRYLATE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDE/ETHYLTRIMONIUM CHLORIDE ACRYLATE/ETHALKONIUM CHLORIDE ACRYLATE COPOLYMER	ACRYLAMIDE/ETHYLTRIMONIUM CHLORIDE ACRYLATE/ETHALKONIUM CHLORIDE ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLAMIDE/SODIUM ACRYLOYLDIMETHYLTAURATE/ACRYLIC ACID COPOLYMER	ACRYLAMIDE/SODIUM ACRYLOYLDIMETHYLTAURATE/ACRYLIC ACID COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDES COPOLYMER	ACRYLAMIDES COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDES/DMAPA ACRYLATES/METHOXY PEG METHACRYLATE COPOLYMER	ACRYLAMIDES/DMAPA ACRYLATES/METHOXY PEG METHACRYLATE COPOLYMER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLAMIDES/DMAPA ACRYLATES/METHOXY PEG METHACRYLATE COPOLYMER	ACRYLAMIDES/DMAPA ACRYLATES/METHOXY PEG METHACRYLATE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDOPROPYLTRIMONIUM CHLORIDE/ ACRYLAMIDE COPOLYMER	ACRYLAMIDOPROPYLTRIMONIUM CHLORIDE/ ACRYLAMIDE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
ACRYLAMIDOPROPYLTRIMONIUM CHLORIDE/ ACRYLAMIDE COPOLYMER	ACRYLAMIDOPROPYLTRIMONIUM CHLORIDE/ ACRYLAMIDE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLAMIDOPROPYLTRIMONIUM CHLORIDE/ACRYLATES COPOLYMER	ACRYLAMIDOPROPYLTRIMONIUM CHLORIDE/ACRYLATES COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES COPOLYMER	ACRYLATES COPOLYMER	25133-97-5	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES CROSSPOLYMER	Acrylates Crosspolymer	26794-61-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 5%; The CIR does not allow the use of this ingredient in cosmetic products when polymerized in benzene.	
ACRYLATES CROSSPOLYMER	ACRYLATES CROSSPOLYMER	26794-61-6	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ ACRYLAMIDE COPOLYMER	ACRYLATES/ ACRYLAMIDE COPOLYMER	9003-06-9	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACRYLATES/ AMINOACRYLATES/ C10-30 AKLYL PEG-20 ITACONATE COPOLYMER	Acrylates/ Aminoacrylates/ C1030 Aklyl Peg20 Itaconate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/ AMINOACRYLATES/ C10-30 ALKYL PEG-20 ITACONATE COPOLYMER	Acrylates/ Aminoacrylates/ C1030 Alkyl Peg20 Itaconate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/ BEHENETH-25 METHACRYLATE COPOLYMER	ACRYLATES/ BEHENETH-25 METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ BEHENETH-25 METHACRYLATE COPOLYMER	ACRYLATES/ BEHENETH-25 METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/ C12-22 ALKYL METHACRYLATE COPOLYMER	ACRYLATES/ C12-22 ALKYL METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ C12-22 ALKYL METHACRYLATE COPOLYMER	ACRYLATES/ C12-22 ALKYL METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/ CETETH-20 ITACONATE COPOLYMER	Acrylates/ Ceteth20 Itaconate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/ DIMETHICONE COPOLYMER	ACRYLATES/ DIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ACRYLATES/ HYDROXYESTERS ACRYLATES COPOLYMER	ACRYLATES/ HYDROXYESTERS ACRYLATES COPOLYMER	25035-89-6	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACRYLATES/ LAURYL ACRYLATE/ STEARYL ACRYLATE/ ETHYLAMINE OXIDE METHACRYLATE COPOLYMER	ACRYLATES/ LAURYL ACRYLATE/ STEARYL ACRYLATE/ ETHYLAMINE OXIDE METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ STEARETH-20 ITACONATE COPOLYMER	Acrylates/ Steareth20 Itaconate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/ STEARETH-20 METHACRYLATE COPOLYMER	ACRYLATES/ STEARETH-20 METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ VA COPOLYMER	ACRYLATES/ VA COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ VINYL ISODECANOATE CROSSPOLYMER	Acrylates/Vinyl Isodecanoate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.4%; The CIR does not allow the use of this ingredient in cosmetic products when polymerized in benzene.	
ACRYLATES/ VINYL ISODECANOATE CROSSPOLYMER	ACRYLATES/ VINYL ISODECANOATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
Acrylates/Ammonium Methacrylate Copolymer	Acrylates/Ammonium Methacrylate Copolymer		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/BEHENYL ACRYLATE/DIMETHICONE METHACRYLATE COPOLYMER	ACRYLATES/BEHENYL ACRYLATE/DIMETHICONE METHACRYLATE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ACRYLATES/BIS-HYDROXYPROPYL DIMETHICONE CROSSPOLYMER	ACRYLATES/BIS-HYDROXYPROPYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	Acrylates/C1030 Alkyl Acrylate Crosspolymer	176429-87-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%; The CIR does not allow the use of this ingredient in cosmetic products when polymerized in benzene.	
ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	176429-87-1	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/CETETH-20 METHACRYLATE COPOLYMER	Acrylates/ceteth20 Methacrylate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/CETETH-20 METHACRYLATE COPOLYMER	ACRYLATES/CETETH-20 METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/CETETH-20 METHACRYLATE COPOLYMER	ACRYLATES/CETETH-20 METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/DIMETHICONE METHACRYLATE/ETHYLHEXYL ACRYLATE COPOLYMER	ACRYLATES/DIMETHICONE METHACRYLATE/ETHYLHEXYL ACRYLATE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ACRYLATES/DIMETHICONE METHACRYLATE/ETHYLHEXYL ACRYLATE COPOLYMER	ACRYLATES/DIMETHICONE METHACRYLATE/ETHYLHEXYL ACRYLATE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ACRYLATES/DIMETHICONOL ACRYLATE COPOLYMER	ACRYLATES/DIMETHICONOL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	Acrylates/Ethylhexyl Acrylate Copolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 30%	
ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACRYLATES/ETHYLHEXYL ACRYLATE CROSSPOLYMER	ACRYLATES/ETHYLHEXYL ACRYLATE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/ETHYLHEXYL ACRYLATE/DIMETHICONE METHACRYLATE COPOLYMER	ACRYLATES/ETHYLHEXYL ACRYLATE/DIMETHICONE METHACRYLATE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ACRYLATES/ETHYLHEXYL ACRYLATE/GLYCIDYL METHACRYLATE CROSSPOLYMER	ACRYLATES/ETHYLHEXYL ACRYLATE/GLYCIDYL METHACRYLATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/ETHYLHEXYL ACRYLATE/STYRENE COPOLYMER	ACRYLATES/ETHYLHEXYL ACRYLATE/STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ACRYLATES/HYDROXYETHYL ACRYLATE/LAURYL ACRYLATE COPOLYMER	ACRYLATES/HYDROXYETHYL ACRYLATE/LAURYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/HYDROXYETHYL ACRYLATE/LAURYL ACRYLATE COPOLYMER	ACRYLATES/HYDROXYETHYL ACRYLATE/LAURYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER	ACRYLATES/HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER	ACRYLATES/HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/LAURETH-25 METHACRYLATE COPOLYMER	Acrylates/laureth25 Methacrylate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/LAURETH-25 METHACRYLATE COPOLYMER	ACRYLATES/LAURETH-25 METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/LAURETH-25 METHACRYLATE COPOLYMER	ACRYLATES/LAURETH-25 METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACRYLATES/METHOXY PEG-15 METHACRYLATE COPOLYMER	Acrylates/methoxy Peg15 Methacrylate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/METHOXY PEG-15 METHACRYLATE COPOLYMER	ACRYLATES/METHOXY PEG-15 METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/METHOXY PEG-15 METHACRYLATE COPOLYMER	ACRYLATES/METHOXY PEG-15 METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/METHOXY PEG-23 METHACRYLATE/PERFLUOROOCTYL ETHYL ACRYLATE COPOLYMER	Acrylates/methoxy Peg23 Methacrylate/perfluorooctyl Ethyl Acrylate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/METHOXY PEG-23 METHACRYLATE/PERFLUOROOCTYL ETHYL ACRYLATE COPOLYMER	ACRYLATES/METHOXY PEG-23 METHACRYLATE/PERFLUOROOCTYL ETHYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/PALMETH-25 ACRYLATE COPOLYMER	ACRYLATES/PALMETH-25 ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/PALMETH-25 ACRYLATE COPOLYMER	ACRYLATES/PALMETH-25 ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/PEG-10 MALEATE/STYRENE COPOLYMER	Acrylates/ Peg10 Maleates/ Styrene Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ACRYLATES/STEARETH-50 ACRYLATE COPOLYMER	ACRYLATES/STEARETH-50 ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ACRYLATES/STEARYL ACRYLATE/DIMETHICONE METHACRYLATE COPOLYMER	ACRYLATES/STEARYL ACRYLATE/DIMETHICONE METHACRYLATE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ACRYLATES/STEARYL METHACRYLATE COPOLYMER	ACRYLATES/STEARYL METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/STEARYL METHACRYLATE COPOLYMER	ACRYLATES/STEARYL METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/VA CROSSPOLYMER	Acrylates/VA Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 25%	
ACRYLATES/VA CROSSPOLYMER	ACRYLATES/VA CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/VINYL NEODECANOATE CROSSPOLYMER	ACRYLATES/VINYL NEODECANOATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ACRYLATES/VINYL NEODECANOATE CROSSPOLYMER	ACRYLATES/VINYL NEODECANOATE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ACRYLATES/VP COPOLYMER	ACRYLATES/VP COPOLYMER	26589-26-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ACRYLIC RESIN COATED ALUMINUM POWDER	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ACTINIDIA CHINENSIS (KIWI) SEED OIL	ACTINIDIA CHINENSIS (KIWI) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
ACTIVATED CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
ADANSONIA DIGITATA OIL	ADANSONIA DIGITATA OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.01%.	
ADENOSINE	ADENOSINE	58-61-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ADENOSINE PHOSPHATE	ADENOSINE PHOSPHATE	61-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ADENOSINE TRIPHOSPHATE	ADENOSINE TRIPHOSPHATE	56-65-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ADEPS SUILLUS	LARD	61789999	The Cosmetic Ingredient Review restricts the lead, arsenic, mercury, and total PCB/pesticide contents of this ingredient to maximum concentrations of 0.1 ppm, 3 ppm, 1 ppm, and 40 ppm (with 10 ppm for any specific residue), respectively.	
ADIPIC ACID	adipic acid	124-04-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.000001% in leaveon products and 18% in rinseoff products.	
ADIPIC ACID/ NEOPENTYL GLYCOL/ TRIMELLITIC ANHYDRIDE COPOLYMER	Adipic Acid/Neopentyl Glycol/Trimellitic Anhydride Copolymer	28407-73-0	The Cosmetic Ingredient Review has determined that this ingredient is safe in nail product formulations.	
AGAR	AGAR	9002-18-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AGAROSE	AGAROSE	9012-36-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AGARUM CRIBOSUM EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
AKA106	ACID RED 52	3520421	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.5% in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
AKA106	AKA106	3520421	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.5% in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AKA106	CI 45100	3520421	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.5% in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
AKA2	AKA2	915-67-3	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 123)	x
AKA208	AKA208	1248-18-6	Per COSING, the maximum concentration in RTU preparation is 3%	x
ALANINE	ALANINE	107-95-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ALANINE, 3-(3,4-DIHYDROXYPHENYL)-2-METHYL-, L-(-)-	Methyldopa	555306	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALARIA ESCULENTA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALARIA ESCULENTA EXTRACT	ALARIA ESCULENTA EXTRACT		The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 0.5%.	
ALARIA ESCULENTA EXTRACT	ALARIA ESCULENTA EXTRACT		This substance should not contain detectable levels of cadmium, lead, mercury, copper, zinc, arsenic, nickel, silver, or iodine.	
ALCALIGENES POLYSACCHARIDES	ALCALIGENES POLYSACCHARIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ALCLOXA	ALUMINUMCHLORHYDROXYALLAN TOINATE	1317-25-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1%.	
ALCLOXA	Aluminum Compounds	1317-25-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
Alcohol ethoxylated (C12-14)	Alcohol Ethoxylated (c1214)	68439-50-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C10-12, 5-7EO) branched	Alcohol Ethoxylates (c1012, 57eo) Branched		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C10-12, 8EO)	Alcohol Ethoxylates (c1012, 8eo)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Alcohol ethoxylates (C10-12)	Alcohol ethoxylates (C10-12)		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4-dioxane cannot exceed 1 ppm in the final product.	x
Alcohol ethoxylates (C10-14)	Alcohol Ethoxylates (c1014)	66455-15-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C10-16, 9EO)	Alcohol Ethoxylates (c1016, 9eo)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C10-16)	Alcohol Ethoxylates (c1016)	68002-97-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES (C10-C16) SODIUM SALT	Sodium Magnesium Laureth3,6 Sulfate	68585342	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES (C10-C16) SODIUM SALT	Alcohol Ethoxylates (c10C16) Sodium Salt	68585-34-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C11-14-iso-, C13-rich)	Alcohol Ethoxylates (c1114Iso, C13Rich)	78330-21-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C11-15) secondary	Alcohol Ethoxylates (c1115) Secondary	68131-40-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-13)	Alcohol Ethoxylates (c1213)	66455-14-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-14) 9EO	Alcohol Ethoxylates (c1214) 9eo		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Alcohol ethoxylates (C12-14) linear, saturated	Alcohol Ethoxylates (c1214) Linear, Saturated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-14) propoxylated	Alcohol Ethoxylates (c1214) Propoxylated	68439-51-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-14) secondary	Alcohol Ethoxylates (c1214) Secondary	84133-50-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15, 12-20EO)	Alcohol ethoxylates (C1215, 1220EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15, 20-30EO)	Alcohol ethoxylates (C1215, 2030EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15, 3-12EO, branched)	Alcohol ethoxylates (C1215, 312EO, branched)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15, 30+EO)	Alcohol ethoxylates (C1215, 30+EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15, 7EO)	Alcohol Ethoxylates (c1215, 7eo)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15, 9-12EO)	Alcohol ethoxylates (C1215, 912EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15, avg 12-13, 6-9EO)	Alcohol ethoxylates (C1215, avg 1213, 69EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Alcohol ethoxylates (C12-15, avg 15, 6-9EO)	Alcohol ethoxylates (C1215, avg 15, 69EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-15)	Alcohol Ethoxylates (c1215)	106232-83-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-16, 7EO)	Alcohol Ethoxylates (c1216, 7eo)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES (C12-16)	Alcohol Ethoxylates (c1216)	68551-12-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-18, 0-3EO)	Alcohol ethoxylates (C1218, 03EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-18, 10-20EO)	Alcohol ethoxylates (C1218, 1020EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12-18, 5-10EO)	Alcohol ethoxylates (C1218, 510EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES (C12-18)	Alcohol Ethoxylates (c1218)	68213-23-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH40	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH38	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Alcohol ethoxylates (C12)	LAURETH30	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH25	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH20	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH16	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH15	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH14	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH13	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH11	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	LAURETH23	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C12)	Alcohol Ethoxylates (c12)	9002-92-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Alcohol ethoxylates (C14-15)	Alcohol Ethoxylates (c1415)	68951-67-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C16-18, 2-8EO)	Alcohol ethoxylates (C1618, 28EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C16-18, 20-30EO)	Alcohol ethoxylates (C1618, 2030EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES (C16-18, 25EO)	Alcohol Ethoxylates (c1618, 25eo)	68439-49-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES (C16-18, 25EO)	CETEARETH12	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C16-18, 30+EO)	Alcohol ethoxylates (C1618, 30+EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C16-18, 9-18EO)	Alcohol ethoxylates (C1618, 918EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C4-C8, 5EO)	Alcohol Ethoxylates (c4C8, 5eo)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES (C6-12)	Alcohol Ethoxylates (c612)	68439-45-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C7-21)	Alcohol Ethoxylates (c721)	68991-48-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Alcohol ethoxylates (C8-10)	Alcohol Ethoxylates (c810)	74565-57-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C9-11, 3-6EO)	Alcohol ethoxylates (C911, 36EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C9-11, 4-8EO)	C911 PARETH8	68439-46-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C9-11, 4-8EO)	Alcohol Ethoxylates (c911, 48eo)	68439-46-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C9-11, 4-8EO)	Alcohol Ethoxylates (c911)	68439-46-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C9-11, 5-11EO, branched)	Alcohol ethoxylates (C911, 511EO, branched)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates (C9-11, 6-10EO)	Alcohol ethoxylates (C911, 610EO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol Ethoxylates Blend (C12-18 & C12-16)	Alcohol Ethoxylates Blend (c1218 & C1216)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol Ethoxylates, Propoxylated (C10-16, 6-7EO, 0-3PO)	Alcohol Ethoxylates, Propoxylated (C1016, 67EO, 03PO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates, propoxylated (C12-14)	Alcohol Ethoxylates, Propoxylated (c1214)	68439-51-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Alcohol Ethoxylates, Propoxylated (C12-15, 2-6EO, 2-6PO)	Alcohol Ethoxylates, Propoxylated (C1215, 26EO, 26PO)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES, PROPOXYLATED (C12-15)	Alcohol Ethoxylates Propoxylated (c1215)	68551-13-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOL ETHOXYLATES, PROPOXYLATED (C12-15)	Alcohol Ethoxylates, Propoxylated (c1215)	68551-13-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates, propoxylated (C12-15) branched and linear	Alcohol Ethoxylates, Propoxylated (c1215) Branched And Linear	120313-48-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates, propoxylated (C6-10)	Alcohol Ethoxylates, Propoxylated (c610)	68987-81-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates, propoxylated (C6-12)	Alcohol Ethoxylates, Propoxylated (c612)	68937-66-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohol ethoxylates, propoxylated fumerated (C6-10)	Alcohol Ethoxylates, Propoxylated Fumerated (c610)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohols, C12-15-branched and linear, ethoxylated	Alcohols, C1215branched and linear, ethoxylated	106232-83-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOLS, C12-18, ETHOXYLATED PROPOXYLATED	Alcohols, C1218, ethoxylated propoxylated	69227-21-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohols, C13-15 branched and linear, butoxylated ethoxylated	Alcohols, C1315 Branched And Linear, Butoxylated Ethoxylated	111905-53-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALCOHOLS, C16-18, ETHOXYLATED PROPOXYLATED	Alcohols, C1618, ethoxylated propoxylated	68002-96-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alcohols, C16-22, ethoxylated	Alcohols, C1622, ethoxylated	69227-20-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED	Alcohols, C810, ethoxylated propoxylated	68603-25-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALDIOXA	Aluminum Compounds	5579-81-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALEURITES MOLUCCANA (KUKUI) SEED OIL	ALEURITES MOLUCCANA SEED OIL	8015-80-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
ALGAE OLIGOSACCHARIDES	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALGAE PEPTIDES	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALGAE/SEAWEED/KELP (species unspecified)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALGAE/SEAWEED/KELP EXTRACT (species unspecified)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALGAE/SEAWEED/KELP OIL (species unspecified)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x

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ALGAE/SEAWEED/KELP POWDER (species unspecified)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALGAE OYL PHYTOSPHINGOSINE	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALGIN	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ALGIN	ALGIN	9005-38-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ALGINIC ACID	ALGINIC ACID	9005-32-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ALKANES, C1-2	ALKANES, C12	68475570	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
ALKANES, C1-4, C3-RICH	ALKANES, C14, C3RICH	90622552	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
ALKANES, C12-26-BRANCHED AND LINEAR	Alkanes, C12-26 branched and linear	90622530	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
ALKANES, C2-3	Alkanes, C23	68475581	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
ALKANES, C3-4	Alkanes, C34	68475592	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
ALKANES, C4-5	ALKANES, C45	68475605	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
Alkyl benzyl dimethyl ammonium chloride mixture	Benzalkonium Chloride	8001545	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1% as the free active ingredient.	
Alkyl benzyl dimethyl ammonium chloride mixture	BENZALKONIUMCHLORIDE	8001545	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinse-off products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
Alkyl benzyl dimethyl ammonium chloride mixture	Benzalkonium Chloride, NOS	8001545	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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Alkyl Dimethyl benzyl ammonium chlorides (C12-16)	BENZALKONIUMCHLORIDE	68424851	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
Alkyl Dimethyl benzyl ammonium chlorides (C12-16)	BenzylC1216alkyldimethyl ammonium, chlorides	68424851	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	Dimethyl Ethyl Benzyl Ammonium Chloride	68956796	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
Alkyl dimethyl ethylbenzyl ammonium chlorides (C12-18)	BENZALKONIUMCHLORIDE	68391015	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
Alkyl dimethyl ethylbenzyl ammonium chlorides (C12-18)	Benzalkonium Chloride	68391015	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens.	
Alkyl dimethyl ethylbenzyl ammonium chlorides (C12-18)	BenzylC1218alkyldimethyl ammonium, chlorides	68391015	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
Alkyl Ether Sulfates (C12-15, 1-3EO)	Alkyl Ether Sulfates (C1215, 13EO)		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alkyl Ether Sulfates (C16-18, 3-4EO)	Alkyl Ether Sulfates (C1618, 34EO)		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Alkylphenol ethoxylates	ALKYLPHENOL ETHOXYLATES		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALLANTOIN	Allantoin	97-59-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
ALLANTOIN ASCORBATE	ALLANTOIN ASCORBATE	57448-83-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.05%.	
ALLIUM SATIVUM (GARLIC)	ALLIUM SATIVUM (GARLIC)		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens	x
ALLYL 2-METHYLBUTOXYACETATE	ALLYL 2METHYLBUTOXYACETATE	67634019	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL 3,5,5-TRIMETHYLHEXANOATE	Allyl 3,5,5trimethylhexanoate	71500373	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL BUTYRATE	ALLYL BUTYRATE	2051787	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL CAPROATE	ALLYL CAPROATE	123682	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	

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ALLYL CINNAMATE	ALLYL CINNAMATE	1866315	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL CYCLOHEXYLACETATE	ALLYL CYCLOHEXYLACETATE	4728829	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL CYCLOHEXYLOXYACETATE	ALLYL CYCLOHEXYLOXYACETATE	68901155	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL CYCLOHEXYLPROPIONATE	ALLYL CYCLOHEXYLPROPIONATE	2705875	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL HEPTANOATE	ALLYL HEPTANOATE	142198	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL HEPTINE CARBONATE	ALLYL HEPTINE CARBONATE	73157434	The European Commission restricts this ingredient to a maximum concentration of 0.002% and cannot be used in combination with any other 2alkynoic acid ester (e.g. methyl heptine carbonate).	
ALLYL ISOVALERATE	Allyl isovalerate	2835394	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL METHACRYLATES CROSSPOLYMER	Allyl Methacrylates Crosspolymer	182212-41-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%; The CIR does not allow the use of this ingredient in cosmetic products when polymerized in benzene.	
ALLYL METHACRYLATES CROSSPOLYMER	ALLYL METHACRYLATES CROSSPOLYMER	182212-41-5	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ALLYL METHACRYLATES CROSSPOLYMER	ALLYL METHACRYLATES CROSSPOLYMER	182212-41-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ALLYL NONANOATE	ALLYL NONANOATE	7493723	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL OCTANOATE	ALLYL OCTANOATE	4230971	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL PHENETHYL ETHER	Allyl phenethyl ether	14289657	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL PHENOXYACETATE	ALLYL PHENOXYACETATE	7493745	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL PHENOXYACETATE	ALLYL PHENOXYACETATE	7493745	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.11% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.32% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.17% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.51% in mouthwashes, breath sprays, and toothpastes, 0.05% in intimate wipes, and baby wipes, 0.7% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 3.5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ALLYL PHENOXYACETATE	ALLYL PHENOXYACETATE	7493745	The International Fragrance Association restricts the level of free allyl alcohol in the ester to a maximum concentration of less than 0.1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALLYL PHENOXYACETATE	ALLYL PHENOXYACETATE	7493745	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.054% Category 2) 0.016% Category 3) 0.21% Category 4) 0.30% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.025% Category 6) 0.18% Category 7A) 0.41% Category 7B) 0.41% Category 8) 0.025% Category 9) 0.59% Category 10A) 0.59% Category 10B) 1.7% Category 11A) 0.025% Category 11B) 0.025% Category 12) 52%; Allyl esters should only be used when the level of free Allyl alcohol in the ester is less than 0.1%	
ALLYL PHENOXYACETATE	ALLYL PHENOXYACETATE	863306609	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.054% Category 2) 0.016% Category 3) 0.21% Category 4) 0.30% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.025% Category 6) 0.18% Category 7A) 0.41% Category 7B) 0.41% Category 8) 0.025% Category 9) 0.59% Category 10A) 0.59% Category 10B) 1.7% Category 11A) 0.025% Category 11B) 0.025% Category 12) 52%; Allyl esters should only be used when the level of free Allyl alcohol in the ester is less than 0.1%	
ALLYL PHENYLACETATE	ALLYL PHENYLACETATE	1797746	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL PROPIONATE	ALLYL PROPIONATE	2408200	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALLYL TRIMETHYLHEXANOATE	Allyl trimethylhexanoate	68132809	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ALMOND OIL PEG-6 ESTERS	Almond Oil Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALMOND OIL PEG-6 ESTERS	ALMOND OIL PEG-6 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ALMOND OIL PEG-8 ESTERS	Almond Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALMOND OIL PEG-8 ESTERS	ALMOND OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ALMONDAMIDE DEA	ALMONDAMIDE DEA	124046180	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ALMONDAMIDE DEA	ALMONDAMIDE DEA	124046-18-0	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nitroso compounds cannot form.	
ALMONDAMIDE DEA	ALMONDAMIDE DEA	124046-18-0	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALMONDAMIDOPROPYL BETAINE	ALMONDAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB)	
ALMONDAMIDOPROPYL DIMETHYLAMINE	Almondamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
ALOE ABORESCENS	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE ANDONGENSIS EXTRACT	ALOE ANDONGENSIS EXTRACT	84837-08-1	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE ANDONGENSIS EXTRACT	ALOE INGREDIENTS	84837-08-1	California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE ANDONGENSIS LEAF EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE ANDONGENSIS LEAF JUICE	ALOE ANDONGENSIS LEAF JUICE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE ANDONGENSIS LEAF JUICE	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE ARBORESCENS FLOWER EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE ARBORESCENS LEAF EXTRACT	ALOE BARBADENSIS FLOWER EXTRACT		The Cosmetic Ingredient Review restricts the anthraquinone content of this ingredient to less than 50 ppm. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE ARBORESCENS LEAF EXTRACT	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE ARBORESCENS LEAF EXTRACT	ALOE BARBADENSIS LEAF EXTRACT		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE ARBORESCENS LEAF EXTRACT	ALOE BARBADENSIS LEAF JUICE		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE ARBORESCENS LEAF EXTRACT	ALOE BARBADENSIS LEAF POLYSACCHARIDES		The Cosmetic Ingredient Review restricts the anthraquinone content of this ingredient to less than 50 ppm. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE ARBORESCENS LEAF EXTRACT	ALOE BARBADENSIS LEAF WATER		The Cosmetic Ingredient Review restricts the anthraquinone content of this ingredient to less than 50 ppm. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE ARBORESCENS LEAF EXTRACT	ALOE ARBORESCENS LEAF EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	

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ALOE ARBORESCENS LEAF EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE ARBORESCENS LEAF JUICE	ALOE ARBORESCENS LEAF JUICE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE ARBORESCENS LEAF JUICE	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE ARBORESCENS LEAF PROTOPLASTS	ALOE ARBORESCENS LEAF PROTOPLASTS		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE ARBORESCENS LEAF PROTOPLASTS	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA)	ALOE BARBADENSIS LEAF	8001-97-6	The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA)	ALOE INGREDIENTS	8001-97-6	California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) BUTTER	ALOE BARBADENSIS LEAF BUTTER		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) BUTTER	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) CELLULOSE	ALOE BARBADENSIS LEAF CELLULOSE		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) CELLULOSE	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) EXTRACT	ALOE BARBADENSIS LEAF EXTRACT	85507-69-3	The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) EXTRACT	ALOE INGREDIENTS	85507-69-3	California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) FLOWER EXTRACT	ALOE BARBADENSIS FLOWER EXTRACT	85507-69-3	The Cosmetic Ingredient Review restricts the anthraquinone content of this ingredient to less than 50 ppm. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE BARBADENSIS (ALOE VERA) FLOWER EXTRACT	ALOE INGREDIENTS	85507-69-3	California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) LEAF EXTRACT	ALOE BARBADENSIS LEAF EXTRACT		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) LEAF EXTRACT	ALOE BARBADENSIS LEAF EXTRACT		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) LEAF EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALOE BARBADENSIS (ALOE VERA) LEAF JUICE	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) LEAF JUICE	ALOE BARBADENSIS LEAF JUICE		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) LEAF JUICE	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) LEAF JUICE POWDER	ALOE BARBADENSIS LEAF JUICE		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) LEAF JUICE POWDER	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) OIL	ALOE BARBADENSIS LEAF JUICE		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) OIL	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) OIL EXTRACT	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) OIL EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS (ALOE VERA) ROOT EXTRACT	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS (ALOE VERA) ROOT EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS LEAF POLYSACCHARIDES	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS LEAF POLYSACCHARIDES	ALOE BARBADENSIS LEAF POLYSACCHARIDES		The Cosmetic Ingredient Review restricts the anthraquinone content of this ingredient to less than 50 ppm. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE BARBADENSIS LEAF POLYSACCHARIDES	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS LEAF POWDER	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
ALOE BARBADENSIS LEAF POWDER	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE BARBADENSIS LEAF WATER	ALOE BARBADENSIS LEAF WATER		The Cosmetic Ingredient Review restricts the anthraquinone content of this ingredient to less than 50 ppm. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALOE BARBADENSIS LEAF WATER	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE EXTRACT, LIPID FRACTION	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE FEROX (CAPE ALOE) EXTRACT	ALOE FEROX LEAF EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE FEROX (CAPE ALOE) EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE FEROX (CAPE ALOE) LEAF EXTRACT	ALOE FEROX LEAF EXTRACT	84649-82-1	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE FEROX (CAPE ALOE) LEAF EXTRACT	ALOE INGREDIENTS	84649-82-1	California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE FEROX LEAF JUICE	ALOE FEROX LEAF JUICE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE FEROX LEAF JUICE	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE FEROX LEAF JUICE EXTRACT	ALOE FEROX LEAF JUICE EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE FEROX LEAF JUICE EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE FEROX LEAF JUICE POWDER	ALOE FEROX LEAF EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
ALOE FEROX LEAF JUICE POWDER	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
Aloe Maculata Leaf Extract	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
Aloe Maculata Leaf Extract	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE PERRYI EXTRACT	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE YOHJU MATSU EKISU	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE YOHJYU MATSU	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALOE, POWDERED	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
ALPHA HYDROXY ACIDS	ALPHA HYDROXY ACIDS		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALPHA HYDROXY ACIDS	ALPHAHYDROXYACIDS		Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	
alpha-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Rose ketones	43052875	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
alpha-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Rose ketones	43052875	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
alpha-CEDRENE	Cedrene	469614	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
ALPHA-DAMASCONE	ALPHADAMASCONE	23726945	The European Commission restricts this ingredient to a maximum concentration of 0.02% in nonoral products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALPHA-DAMASCONE	Rose ketones	23726945	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ALPHA-DAMASCONE	Rose ketones	23726945	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
ALPHA-ISOMETHYL IONONE	alphaISOMETHYL IONONE	127515	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
ALPHA-ISOMETHYL IONONE	Methyl ionone, mixed isomers	127515	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in lip products, 2.59% in deodorants/antiperspirants, 10.56% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 31.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 16.67% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 50.72% in mouthwashes, breath sprays, and toothpastes, 5.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ALPHA-ISOMETHYL IONONE	Methyl ionone, mixed isomers	127515	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 5.4% Category 2) 1.6% Category 3) 32% Category 4) 30% Category 5A) 7.6% Category 5B) 7.6% Category 5C) 7.6% Category 5D) 7.6% Category 6) 18% Category 7A) 61% Category 7B) 61% Category 8) 3.2% Category 9) 59% Category 10A) 100% Category 10B) 100% Category 11A) 100% Category 11B) 100% Category 12) No Restriction; A level of up to 2% of Pseudo methyl ionones as an impurity in Methyl ionones is accepted.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
alpha-METHYL-alpha-IONONE	Methyl ionone, mixed isomers	127424	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in lip products, 2.59% in deodorants/antiperspirants, 10.56% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 31.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 16.67% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 50.72% in mouthwashes, breath sprays, and toothpastes, 5.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
alpha-METHYL-alpha-IONONE	Methyl ionone, mixed isomers	127424	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 5.4% Category 2) 1.6% Category 3) 32% Category 4) 30% Category 5A) 7.6% Category 5B) 7.6% Category 5C) 7.6% Category 5D) 7.6% Category 6) 18% Category 7A) 61% Category 7B) 61% Category 8) 3.2% Category 9) 59% Category 10A) 100% Category 10B) 100% Category 11A) 100% Category 11B) 100% Category 12) No Restriction; A level of up to 2% of Pseudo methyl ionones as an impurity in Methyl ionones is accepted.	
alpha-METHYL-beta-IONONE	Methyl ionone, mixed isomers	127435	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in lip products, 2.59% in deodorants/antiperspirants, 10.56% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 31.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 16.67% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 50.72% in mouthwashes, breath sprays, and toothpastes, 5.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
alpha-METHYL-beta-IONONE	Methyl ionone, mixed isomers	127435	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 5.4% Category 2) 1.6% Category 3) 32% Category 4) 30% Category 5A) 7.6% Category 5B) 7.6% Category 5C) 7.6% Category 5D) 7.6% Category 6) 18% Category 7A) 61% Category 7B) 61% Category 8) 3.2% Category 9) 59% Category 10A) 100% Category 10B) 100% Category 11A) 100% Category 11B) 100% Category 12) No Restriction; A level of up to 2% of Pseudo methyl ionones as an impurity in Methyl ionones is accepted.	
ALPHA-NICKEL SULFIDE	Nickel Compounds	11113-75-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
alpha-PINENES	ALPHAPINENES	80568	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L	
alpha-TERPINENE	ALPHATERPINENE	99865	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
ALPHA-TOCOPHEROL PHOSPHATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
alpha,2,2,3-tetramethylcyclopent-3-ene-1-butylaldehyde	α,2,2,3Tetramethylcyclopent3ene1butylaldehyde	65114036	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.038 % Category 2) 0.011 % Category 3) 0.23 % Category 4) 0.21 % Category 5A) 0.054 % Category 5B) 0.054 % Category 5C) 0.054 % Category 5D) 0.054 % Category 6) 0.13 % Category 7A) 0.44 % Category 7B) 0.44 % Category 8) 0.023 % Category 9) 0.42 % Category 10A) 1.5 % Category 10B) 1.5 % Category 11A) 0.83 % Category 11B) 0.83 % Category 12) No Restriction	
ALUMINA	Aluminum Compounds	1344-28-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINA	Aluminum Oxide	1344281	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINA MAGNESIUM METASILICATE	ALUMINA MAGNESIUM METASILICATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.01%.	
ALUMINA MAGNESIUM METASILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ALUMINATE (1-), TETRAHYDRO-, SODIUM	Aluminum Compounds	13770-96-2	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINATE(1-), (CARBONATO(2-)-KAPPAO,KAPPAO')DIHYDROXY-, SODIUM, (T-4)-	Aluminum Compounds	16482-55-6	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINATE(1-), BIS(OXOBUTANEDIOATE(2-)-O1,O2)-, HYDROGEN, (T-4)-	Aluminum Compounds	65636-59-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINATE(3-), HEXAFLUORO-, TRIAMMONIUM	Aluminum Compounds	7784-19-2	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINIUM LITHIUM HYDRIDE	Aluminum Compounds	16853-85-3	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINIUM PHOSPHIDE	Aluminum Compounds	20859-73-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINIUM-TRI-ISOPROPOXIDE	Aluminum Compounds	555-31-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
aluminum	Aluminum	7429905	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens.	
aluminum	Aluminum	7429905	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM ACETATE	Aluminum Compounds	139-12-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM ACETATE SOLUTION	Aluminum Compounds	8006-13-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM ACYL GLUTAMATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM BARIUM TITANIUM OXIDE	Aluminum Compounds	52869-91-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM BEHENATE	Aluminum Compounds	18990-72-2	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM BENZOATE	Benzoate	555-32-8	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM BENZOATE	Aluminum Compounds	555-32-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM BROMIDE	Aluminum Compounds	7727-15-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM BROMOHYDRATE	Aluminum Compounds	12794-92-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM BUTOXIDE	Aluminum Compounds	2269-22-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM OXIDE SILICATE	Aluminum Compounds	181659-14-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM OXIDE SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ALUMINUM CALCIUM SODIUM SILICATE	ALUMINUM CALCIUM SODIUM SILICATE	1344-01-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
ALUMINUM CALCIUM SODIUM SILICATE	CLAYS AND MINERALS	1344-01-0	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
ALUMINUM CALCIUM SODIUM SILICATE	Aluminum Compounds	1344-01-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CALCIUM SODIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ALUMINUM CAPRYLATE	Aluminum Compounds	6028-57-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CAPRYLOYL HYDROLYZED COLLAGEN	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLORHYDRATE COMPLEX	Aluminum Compounds	1327-41-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLORIDE	ALUMINUMCHLORIDE	7446-70-0	Health Canada restricts this ingredient to a maximum concentration of 15% calculated as aluminum chloride hexahydrate. Additionally, deodorant and antiperspirant cosmetics containing aluminum chloride are not permitted in aerosol dispensers, must be in the form of an aqueous solution, and cannot be combined with aluminum chlorohydrate or its associated complexes or aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM CHLORIDE	Aluminum Compounds	7446-70-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLORIDE	Aluminum Chloride	7446700	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLORIDE OXIDE	Aluminum Compounds	13596-11-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM CHLORIDE, HEXAHYDRATE	Aluminum Compounds	7784-13-6	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLOROHYDRATE	ALUMINUMCHLOROHYDRATE	12042-91-0	Health Canada restricts this ingredient to a maximum concentration of 25% (calculated as the anhydrous form). Additionally, it cannot be combined with aluminum chloride, other aluminum chlorohydrate complexes or aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'. Additionally, if the product comes as an aerosol the following must also be labeled: 'Keep away from face to avoid inhalation and spraying in the eyes'; 'Keep out of reach of children'.	
ALUMINUM CHLOROHYDRATE	Aluminum Compounds	12042-91-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLOROHYDREX	Aluminum Compounds	53026-85-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLOROHYDREX PEG	Aluminum Chlorohydrax Peg	173762817	The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALUMINUM CHLOROHYDREX PEG	Aluminum Compounds	173762-81-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLOROHYDREX PG	Aluminum Compounds	173762-82-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM CHLOROHYDREX PROPYLENE GLYCOL	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM CITRATE	Aluminum Compounds	31142-56-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DIACETATE	Aluminum Compounds	142-03-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DIBENZOATE/STEARATE HYDROXIDE	Aluminum Compounds	94166-87-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DICETYL PHOSPHATE	Aluminum Compounds	26527-54-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DICHLOROHYDRATE	Aluminum Compounds	10284-64-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DICHLOROHYDREX PEG	Aluminum Dichlorohydrax Peg	173720804	The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALUMINUM DICHLOROHYDREX PEG	Aluminum Compounds	173720-80-4	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DICHLOROHYDREX PG	Aluminum Compounds	180324-83-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DILINOLEATE	Aluminum Compounds	53202-37-2	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM DILINOLEATE	ALUMINUM DILINOLEATE	53202-37-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM DIMYRISTATE	ALUMINUM DIMYRISTATE	56639-51-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
ALUMINUM DIMYRISTATE	Aluminum Compounds	56639-51-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM DISTEARATE	ALUMINUM DISTEARATE	300-92-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
ALUMINUM DISTEARATE	Aluminum Compounds	300-92-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM FLUORIDE	ALUMINUM FLUORIDE	7784181	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains aluminium fluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
ALUMINUM FLUORIDE	Aluminum Compounds	7784-18-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM FLUOROSULFATE, HYDRATE	Aluminum Compounds	73680-58-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM GLYCINATE	Aluminum Compounds	13682-92-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM HYDRATE	Aluminum Compounds	21645-51-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM HYDRIDE	Aluminum Compounds	7784-21-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM HYDROGENATED TALLOW GLUTAMATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM HYDROXIDE	Aluminum Compounds	21645-51-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM HYDROXIDE OXIDE	Aluminum Compounds	24623-77-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM IRON SILICATES	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM IRON SILICATES	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ALUMINUM ISOSTEARATE	Aluminum Compounds	72277-75-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ISOSTEARATE	ALUMINUM ISOSTEARATE	72277-75-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ALUMINUM ISOSTEARATES/LAURATES/PALMITATES	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM ISOSTEARATES/LAURATES/PALMITATES	ALUMINUM ISOSTEARATES/LAURATES/PALMITATES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ALUMINUM ISOSTEARATES/LAURATES/STEARATES	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ISOSTEARATES/LAURATES/STEARATES	ALUMINUM ISOSTEARATES/LAURATES/STEARATES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ALUMINUM ISOSTEARATES/MYRISTATES	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ISOSTEARATES/MYRISTATES	ALUMINUM ISOSTEARATES/MYRISTATES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ALUMINUM ISOSTEARATES/PALMITATES	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ISOSTEARATES/PALMITATES	ALUMINUM ISOSTEARATES/PALMITATES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ALUMINUM ISOSTEARATES/STEARATES	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ISOSTEARATES/STEARATES	ALUMINUM ISOSTEARATES/STEARATES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ALUMINUM ISOSTEARYL GLYCERYL PHOSPHATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM LACCATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM LACTATE	Aluminum Compounds	18917-91-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM LANOLATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM LANOLATE	ALUMINUM LANOLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ALUMINUM LAURATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM MAGNESIUM OXIDE	Aluminum Compounds	11137-98-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM METHIONATE	Aluminum Compounds	52667-15-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM MYRISTATE	Aluminum Compounds	4040-50-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM MYRISTATE	ALUMINUM MYRISTATE	4040-50-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ALUMINUM MYRISTATES/PALMITATES	ALUMINUM MYRISTATESPALMITATES		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
ALUMINUM MYRISTATES/PALMITATES	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM MYRISTATES/PALMITATES	ALUMINUM MYRISTATES/PALMITATES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
aluminum oxide	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM PCA	Aluminum Compounds	59792-81-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM PHENOLSULFONATE	Aluminum Compounds	1300-35-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM SESQUICHLOROXYDRATE	Aluminum Compounds	11097-68-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM SESQUICHLOROXYDREX PEG	Aluminum Sesquichlorohydrate Peg		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALUMINUM SESQUICHLOROXYDREX PEG	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM SESQUICHLOROXYDREX PG	Aluminum Compounds	173763-16-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM SILICATE	ALUMINUM SILICATE	1318-74-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3% (up to 37% in dentifrices).	
ALUMINUM SILICATE	Aluminum Compounds	1318-74-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ALUMINUM SODIUM OXIDE	Aluminum Compounds	11138-49-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM STARCH OCTENYLSUCCINATE	Aluminum Compounds	9087-61-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM STEARATE	ALUMINUM STEARATE	637127	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
ALUMINUM STEARATE	Aluminum Compounds	637-12-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM STEARATE	ALUMINUM STEARATE	637-12-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ALUMINUM STEAROYL GLUTAMATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM SUCROSE OCTASULFATE	Aluminum Compounds	54182-58-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM SULFATE	Aluminum Compounds	10043-01-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM TRIFORMATE	Aluminum Compounds	7360-53-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM TRIPHOSPHATE	Aluminum Compounds	13939-25-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM TRISTEARATE	ALUMINUM TRISTEARATE	637-12-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
ALUMINUM TRISTEARATE	Aluminum Compounds	637-12-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM TRISTEARATE/TRISIISOSTEARATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM UNDECYLENOYL COLLAGEN AMINO ACIDS	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZINC OXIDE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM OCTACHLOROHYDRATE	ALUMINUM ZIRCONIUM OCTACHLOROHYDRATE	98106559	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM OCTACHLOROHYDRATE	ALUMINUMZIRCONIUM	98106-55-9	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM OCTACHLOROHYDRATE	Aluminum Compounds	98106-55-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM OCTACHLOROXYDREX GLY	ALUMINUM ZIRCONIUM OCTACHLOROXYDREX GLY	174514580	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM OCTACHLOROXYDREX GLY	ALUMINUMZIRCONIUM	174514-58-0	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM OCTACHLOROXYDREX GLY	Aluminum Compounds	174514-58-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM ZIRCONIUM PENTACHLOROHYDRATE	ALUMINUM ZIRCONIUM PENTACHLOROHYDRATE	173762839	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM PENTACHLOROHYDRATE	ALUMINUMZIRCONIUM	173762-83-9	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM PENTACHLOROHYDRATE	Aluminum Compounds	173762-83-9	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM PENTACHLOROHYDREX GLY	ALUMINUM ZIRCONIUM PENTACHLOROHYDREX GLY	125913226	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM PENTACHLOROHYDREX GLY	ALUMINUMZIRCONIUM	125913-22-6	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM PENTACHLOROHYDREX GLY	Aluminum Compounds	125913-22-6	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM TETRACHLOROHYDRATE	ALUMINUM ZIRCONIUM TETRACHLOROHYDRATE	57158299	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM ZIRCONIUM TETRACHLOROHYDRATE	ALUMINUMZIRCONIUM	57158-29-9	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TETRACHLOROHYDRATE	Aluminum Compounds	57158-29-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM TETRACHLOROHYDREX	ALUMINUMZIRCONIUM		Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TETRACHLOROHYDREX	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM TETRACHLOROHYDREX GLYCINE COMPLEX	ALUMINUM ZIRCONIUM TETRACHLOROHYDREX GLYCINE COMPLEX	90604801	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM TETRACHLOROHYDREX GLYCINE COMPLEX	ALUMINUMZIRCONIUM	90604-80-1	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TETRACHLOROHYDREX GLYCINE COMPLEX	Aluminum Compounds	90604-80-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM TETRACHLOROHYDREX GLYCINE COMPLEX, ANHYDROUS	ALUMINUMZIRCONIUM		Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TETRACHLOROHYDREX GLYCINE COMPLEX, ANHYDROUS	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PEG	ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PEG		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PEG	ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PEG	246867107	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PG	ALUMINUMZIRCONIUM		Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PEG	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PG	ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PG	235433359	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PG	ALUMINUMZIRCONIUM		Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TETRACHLOROXYDREX PG	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM TRICHLOROXYDRATE	ALUMINUM ZIRCONIUM TRICHLOROXYDRATE	98106537	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ALUMINUM ZIRCONIUM TRICHLOROHYDRATE	ALUMINUMZIRCONIUM	98106-53-7	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TRICHLOROHYDRATE	Aluminum Compounds	98106-53-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM ZIRCONIUM TRICHLOROHYDREX GLY	ALUMINUM ZIRCONIUM TRICHLOROHYDREX GLY	134375998	The European Commission restricts this ingredient to a maximum concentration of 20% as anhydrous aluminium zirconium chloride hydroxide and 5.4% as zirconium. Additionally, the ratio of the number of aluminium atoms to that of zirconium atoms must be between 2 and 10, the ratio of the number of (Al+Zr) atoms to that of chlorine atoms must be between 0.9 and 2.1, and the substance cannot be used in aerosols dispensers (sprays). Required Warning: The European Commission requires the following warning text on the product label/package: 'Do not apply to irritated or damaged skin'	
ALUMINUM ZIRCONIUM TRICHLOROHYDREX GLY	ALUMINUMZIRCONIUM	134375-99-8	Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
ALUMINUM ZIRCONIUM TRICHLOROHYDREX GLY	Aluminum Compounds	134375-99-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, ((2,2',2''-NITRILOTIS(ETHANOLATO))(3-)-N,O,O',O'')-, (T-4)	Aluminum Compounds	21863-06-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, (GLYCINATO-N,O)DIHYDROXY-, (T-4)-, MIXT. WITH 2-(ACETYLOXY)BENZOIC ACID AND	Aluminum Compounds	53664-49-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, (MU-(ETHANEDIOATE(2-)-KAPPAO1,KAPPAO2':KAPPAO1',KAPPAO2))BIS(ETHANEDIOATE(2-)-	Aluminum Compounds	814-87-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, (MU-3-((3-BETA,20-BETA)-20-CARBOXY-11-OXO-30-NOROLEAN-12-EN-3-YL 4-O-BETA-D-	Aluminum Compounds	134771-73-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, (N,N-BIS(CARBOXYMETHYL)GLYCINATO(3-)-N,O,O',O'')-	Aluminum Compounds	19010-73-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, BIS(2-(4-CHLOROPHENOXY-KAPPAO)-2-METHYLPROPANOATEO-KAPPAO)HYDROXY-	Aluminum Compounds	24818-79-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, BIS(5-(4-CHLOROBUTOXY)PICOLINATO)HYDROXY-	Aluminum Compounds	89743-24-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, BIS(5-(P-CHLOROPHENOXY)PICOLINATO)HYDROXY-	Aluminum Compounds	89743-23-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, CHLORODIETHYL-	Aluminum Compounds	96-10-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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ALUMINUM, CHLORODIISOBUTYL-	Aluminum Compounds	1779-25-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, DICHLOROETHYL-	Aluminum Compounds	563-43-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, DIISOBUTYLHYDRO-	Aluminum Compounds	1191-15-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, HYDROXYBIS(SALICYLIC ACID ACETATO)-	Aluminum Compounds	23413-80-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, HYDROXYCHLORO(ALLANTOINATO)-	Aluminum Compounds	2626-68-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, PENTAKIS(N(SUP 2)-ACETYL-L-GLUTAMINATO)TETRAHYDROXYTRI-	Aluminum Compounds	12607-92-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIBROMOTRIMETHYLDI-	Aluminum Compounds	12263-85-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRICHLOROTRIETHYLDI-	Aluminum Compounds	12075-68-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRICHLOROTRIMETHYLDI-	Aluminum Compounds	12542-85-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIETHYL-	Aluminum Compounds	97-93-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIISOBUTYL-	Aluminum Compounds	100-99-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIMETHYL-	Aluminum Compounds	75-24-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIPROPYL-	Aluminum Compounds	102-67-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIS(2,4-PENTANEDIONATO)-	Aluminum Compounds	13963-57-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIS(3-(1-METHYL-2-PYRROLIDINYL)PYRIDINE-N(SUP 1))TRIS(2,4,6-TRINITROPHENOLATO)-	Aluminum Compounds	64092-15-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIS(3-HYDROXY-2-METHYL-4H-PYRAN-4-ONATO-O(3),O(4))-; (OC-6-21)-	Aluminum Compounds	103616-17-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIS(8-QUINOLINATO-N1,O8)-	Aluminum Compounds	2085-33-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIS(DIETHYLDITHIOCARBAMATO)-	Aluminum Compounds	110975-13-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIS(DIMETHYLDITHIOCARBAMATO)-	Aluminum Compounds	60955-53-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM, TRIS(N-(ALPHA,ALPHA,ALPHA-TRIFLUOROM-TOLYL)ANTHRANILATO)-	Aluminum Compounds	16449-54-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM(III) NITRATE (1:3)	Aluminum Compounds	13473-90-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM(III) NITRATE, NONAHYDRATE (1:3:9)	Aluminum Compounds	7784-27-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ALUMINUM(III) SILICATE (2:1)	Aluminum Compounds	1302-76-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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ALUMINUM(III) SILICATE (2:1)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ALUMINUM/ MAGNESIUM HYDROXIDE STEARATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMETHYST	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
AMETHYST EXTRACT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
AMETHYST POWDER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
AMIDES, C12-14, N,N-BIS(HYDROXYETHYL)-	LAURAMIDE/MYRISTAMIDE DEA	97926108	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMIDES, C12-14, N,N-BIS(HYDROXYETHYL)-	AMIDES, C1214, N,NBIS(HYDROXYETHYL)	97926108	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
Amidopropyl Betaines	Amidopropyl Betaines		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
AMINES, C12-14-TERT-ALKYL, ETHOXYLATED	Amines, C1214tertalkyl, ethoxylated	73138-27-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Amines, C12-14-tert-alkyl, ethoxylated propoxylated	Amines, C1214tertalkyl, ethoxylated propoxylated	68603-58-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMINES, TALLOW ALKYL, ETHOXYLATED	Amines, tallow alkyl, ethoxylated	61791-44-4	The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMINOETHYLPROPANEDIOL-ACRYLATES/ACRYLAMIDE COPOLYMER	AMINOETHYLPROPANEDIOLACRYLATES/ACRYLAMIDE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leave-on products and 0.5 mg/kg for all other products.	
AMINOMETHYL PROPANEDIOL	AMINOMETHYL PROPANEDIOL	115-69-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
AMINOMETHYL PROPANEDIOL	AMINOMETHYL PROPANEDIOL	115-69-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AMINOMETHYL PROPANOL	AMINOMETHYL PROPANOL	124685	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitrite-free containers.	
AMINOMETHYL PROPANOL	AMINOMETHYL PROPANOL	124-68-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
AMINOMETHYL PROPANOL	AMINOMETHYL PROPANOL	124-68-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AMINOPROPYL DIMETHICONE	AMINOPROPYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
AMINOPROPYL PHENYL TRIMETHICONE	AMINOPROPYL PHENYL TRIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
AMINOPROPYL TOCOPHERYL PHOSPHATE	TOCOPHERYL ACETATE	348099-49-0	This ingredient should not contain detectable levels of hydroquinone.	
AMMONIA GAS	Ammonia	7664417	The European Commission restricts this ingredient to a maximum concentration of 6% (as NH3). Required Warning: The European Commission requires the following warning text on the product label/package if the ingredient is above 2%: 'Contains ammonia'	
AMMONIA GAS	Ammonia Gas	7664417	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagene.	
AMMONIUM ACRYLATES COPOLYMER	AMMONIUM ACRYLATES COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMMONIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	AMMONIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
AMMONIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	AMMONIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
AMMONIUM ACRYLOYLDIMETHYLAURATE/BE HENETH-25 METHACRYLATE CROSSPOLYMER	Ammonium Acryloyldimethyltaurate/Beheneth25 Methacrylate Crosspolymer	683748-12-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
AMMONIUM ACRYLOYLDIMETHYLAURATE/LA URETH-7 METHACRYLATE COPOLYMER	Ammonium Acryloyldimethyltaurate/laureth7 Methacrylate Copolymer	683748074	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM ACRYLOYLDIMETHYLAURATE/ST EARETH-25 METHACRYLATE CROSSPOLYMER	Ammonium Acryloyldimethyltaurate/Steareth25 Methacrylate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%	
Ammonium Acryloyldimethyltaurate/VP Copolymer	Ammonium Acryloyldimethyltaurate/VP Copolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
AMMONIUM ALGINATE	AMMONIUM ALGINATE	9005-34-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AMMONIUM ALUM	Aluminum Compounds	7784-25-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMMONIUM BENZOATE	Benzoate	1863-63-4	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
AMMONIUM BISULFITE	AMMONIUM BISULFITE	10192300	The European Commission restricts this ingredient to a maximum concentration of 0.67% (as free SO2) in oxidative hair dyes, 6.7% (as free SO2) in hair straightening products, 0.45% (as free SO2) in selftanning face products, and 0.40% (as free SO2) in other selftanning products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
AMMONIUM CASEINATE	AMMONIUM CASEINATE	9005-42-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AMMONIUM COCOYL ISETHIONATE	Ammonium Cocoyl Isethionate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 45%.	
AMMONIUM COCOYL SARCOSINATE	AMMONIUM COCOYL SARCOSINATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, it cannot be used in products where Nnitroso compounds may be formed.	
AMMONIUM DICHROMATE	Ammonium Bichromate	7789095	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMMONIUM DIMETHICONE PEG-7 SULFATE	Ammonium Dimethicone Peg7 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMMONIUM FLUORIDE	ammonium fluoride	12125018	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains ammonium fluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
AMMONIUM FLUROSILICATE	AMMONIUM FLUROSILICATE	16919190	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains ammonium fluorosilicate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
AMMONIUM FLUROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
AMMONIUM GLYCOLATE	AMMONIUM GLYCOLATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
AMMONIUM GLYCYRRHIZATE	AMMONIUM GLYCYRRHIZATE	53956-04-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, toxic metals and heavy metals.	
AMMONIUM HYDROLYZED COLLAGEN	AMMONIUM HYDROLYZED COLLAGEN	68951-88-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AMMONIUM HYDROXIDE	AMMONIUM HYDROXIDE	1336216	The European Commission restricts this ingredient to a maximum concentration of 6% (as NH3). Required Warning: The European Commission requires the following warning text on the product label/package if the ingredient is above 2%: 'Contains ammonia'	
AMMONIUM HYDROXIDE	Ammonia Solution, NOS	1336216	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
AMMONIUM HYDROXIDE	AMMONIUM HYDROXIDE	1336-21-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used in hair dyes and colors and in cosmetics when formulated to be nonirritating	
AMMONIUM HYDROXIDE	Ammonium Hydroxide, NOS	1336216	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMMONIUM HYDROXIDE	Ammonium Hydroxide, NOS	1336216	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMMONIUM HYDROXIDE	Ammonia Solution (29%)	1336216	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMMONIUM HYDROXIDE	Ammonia Solution (10%)	1336216	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMMONIUM HYDROXIDE	AMMONIUM HYDROXIDE	1336-21-6	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
AMMONIUM ISOSTEARATE	AMMONIUM ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
AMMONIUM LACTATE	AMMONIUM LACTATE	515-98-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
AMMONIUM LAURETH SULFATE	Ammonium Laureth9 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH SULFATE	Ammonium Laureth7 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH SULFATE	Ammonium Laureth5 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH SULFATE	Ammonium Laureth12 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH SULFATE	AMMONIUM LAURETH SULFATE	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH-12 SULFATE	Ammonium Laureth12 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH-5 SULFATE	Ammonium Laureth5 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMMONIUM LAURETH-6 CARBOXYLATE	Ammonium Laureth6 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH-7 SULFATE	Ammonium Laureth7 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH-8 CARBOXYLATE	Ammonium Laureth8 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURETH-9 SULFATE	Ammonium Laureth9 Sulfate	32612489	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM LAURYL SULFATE	AMMONIUM LAURYL SULFATE	2235-54-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1% in leaveon products.	
AMMONIUM MONOFLUOROPHOSPHATE	AMMONIUM MONOFLUOROPHOSPHATE	66115193	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains ammonium monofluorophosphate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a pea-sized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
AMMONIUM NONOXYNOL-30 SULFATE	Ammonium Nonoxynol30 Sulfate	31691-97-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM NONOXYNOL-4-SULFATE	Ammonium Nonoxynol4Sulfate	31691-97-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM OLEATE	AMMONIUM OLEATE	544-60-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
AMMONIUM PERSULFATE	AMMONIUM PERSULFATE	7727540	The Cosmetic Ingredient Review restricts the use of this ingredient to products meant for brief discontinuous use followed by thorough rinsing.	
AMMONIUM PHOSPHATIDYL RAPESEEDATE	AMMONIUM PHOSPHATIDYL RAPESEEDATE	100085-59-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMMONIUM POLYACRYLATE	AMMONIUM POLYACRYLATE	9003-03-6	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
AMMONIUM POLYACRYLOYLDIMETHYL TAURATE	Ammonium Polyacryloyldimethyl Taurate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
AMMONIUM SILVER ZINC ALUMINUM SILICATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
AMMONIUM SILVER ZINC ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
AMMONIUM STEARATE	AMMONIUM STEARATE	1002-89-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
AMMONIUM STYRENE/ACRYLATES COPOLYMER	AMMONIUM STYRENE/ACRYLATES COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
AMMONIUM STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER	AMMONIUM STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
AMMONIUM STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER	AMMONIUM STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
AMMONIUM SULFITE	AMMONIUM SULFITE	10196040	The European Commission restricts this ingredient to a maximum concentration of 0.67% (as free SO ₂) in oxidative hair dyes, 6.7% (as free SO ₂) in hair straightening products, 0.45% (as free SO ₂) in selftanning face products, and 0.40% (as free SO ₂) in other selftanning products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMMONIUM THIOGLYCOLATE	AMMONIUM THIOGLYCOLATE	5421465	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professional use only.'	
AMMONIUM THIOGLYCOLATE	AMMONIUM THIOGLYCOLATE	5421465	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
AMMONIUM VA/ACRYLATES COPOLYMER	AMMONIUM VA/ACRYLATES COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
AMMONIUM XYLENE-SULFONATE	AMMONIUM XYLENESULFONATE	26447-10-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
AMMONIUM, ((METHYLIMINO)DIETHYLENE)BIS(ETHYLDIMETHYL-, DIBROMIDE	AMMONIUM, ((METHYLIMINO)DIETHYLENE)BIS(ETHYLDIMETHYL, DIBROMIDE	306536		
AMMONIUM, DIETHYLMETHYL(2-(4-(2-NONOXYBENZAMIDO)BENZOYLOXY)ETHYL)-, BROMIDE	Ammonium, Diethylmethyl(2(4(2Nonoxybenzamid o)benzoyloxy)ethyl), Bromide	26187-16-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMMONIUM, DIETHYLMETHYL(2-(4-(2-NONOXYBENZAMIDO)BENZOYLOXY)ETHYL)-, IODIDE	Ammonium, Diethylmethyl(2(4(2Nonoxybenzamid o)benzoyloxy)ethyl), Iodide	26095-60-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AMNIOTIC FLUID	Amniotic Fluid		FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
AMODIMETHICONE	AMODIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
AMODIMETHICONE	AMODIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMODIMETHICONE/SILSESQUIOXANE COPOLYMER	AMODIMETHICONE/SILSESQUIOXANE COPOLYMER	67923-07-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
AMP ISOSTEAROYL HYDROLYZED SOY PROTEIN	AMP ISOSTEAROYL HYDROLYZED SOY PROTEIN	156715456	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP ISOSTEAROYL HYDROLYZED WHEAT PROTEIN	AMP ISOSTEAROYL HYDROLYZED WHEAT PROTEIN	222400353	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ACRYLATES COPOLYMER	AMPACRYLATES COPOLYMER		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ACRYLATES COPOLYMER	AMP-ACRYLATES COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
AMP-ACRYLATES/ALLYL METHACRYLATE COPOLYMER	AMPACRYLATES/ALLYL METHACRYLATE COPOLYMER		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE/HYDROXYETHYLACRYLATE COPOLYMER	AMPACRYLATES/C118 ALKYL ACRYLATE/C18 ALKYL ACRYLAMIDE/HYDROXYETHYLACRYLATE COPOLYMER		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ACRYLATES/DIACETONEACRYLAMIDE COPOLYMER	AMPACRYLATES/DIACETONEACRYLAMIDE COPOLYMER		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ACRYLATES/DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	AMPACRYLATES/DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMP-ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	AMPACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ISOSTEAROYL GELATIN/KERATIN AMINO ACIDS/LYSINE HYDROXYPROPYL TRIMONIUM CHLORIDE	AMPISOSTEAROYL GELATIN/KERATIN AMINO ACIDS/LYSINE HYDROXYPROPYL TRIMONIUM CHLORIDE	156715412	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ISOSTEAROYL HYDROLYZED ELASTIN	AMPISOSTEAROYL HYDROLYZED ELASTIN		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ISOSTEAROYL HYDROLYZED KERATIN	AMPISOSTEAROYL HYDROLYZED KERATIN		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ISOSTEAROYL HYDROLYZED SILK	AMPISOSTEAROYL HYDROLYZED SILK		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMP-ISOSTEAROYL WHEAT/CORN/SOY AMINO ACIDS	AMPISOSTEAROYL WHEAT/CORN/SOY AMINO ACIDS		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AMPHOMYCIN, ALUMINUM DERIV.	Aluminum Compounds	69855-44-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMYL ACETATE	AMYL ACETATE	628637	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
AMYL BENZOATE	Benzoate	2049-96-9	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
AMYL CINNAMYL ALCOHOL	AMYL CINNAMYL ALCOHOL	101859	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMYL CINNAMYL ALCOHOL	αAmyl cinnamic alcohol	101859	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.1% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.6% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.8% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.5% in mouthwashes, breath sprays, and toothpastes, 0.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
AMYL CINNAMYL ALCOHOL	αAmyl cinnamic alcohol	101859	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 0.64 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.32 % Category 5C) 0.38 % Category 5D) 0.11 % Category 6) 0.32 % Category 7A) 0.64 % Category 7B) 0.64 % Category 8) 0.11 % Category 9) 1.6 % Category 10A) 1.6 % Category 10B) 3.5 % Category 11A) 0.11 % Category 11B) 0.11 % Category 12) 79 %	
AMYL SALICYLATE	AMYL SALICYLATE	2050-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
AMYLASE BACTERIAL	alpha Amylase (bacterial)	9000855	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMYLASE, ALPHA-	alpha Amylase (pancreatic)	9000902	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMYL CINNAMALDEHYDE	AMYL CINNAMALDEHYDE	122407	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leave-on products and 0.01% in rinse-off products.	
AMYL CINNAMALDEHYDE	αAmyl cinnamic aldehyde	122407	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.7% in lip products, 0.9% in deodorants/antiperspirants, 3.6% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 10.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 5.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 17.1% in mouthwashes, breath sprays, and toothpastes, 1.8% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
AMYL CINNAMALDEHYDE	αAmyl cinnamic aldehyde	122407	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.58 % Category 2) 0.53 % Category 3) 0.26 % Category 4) 7.0 % Category 5A) 2.5 % Category 5B) 0.32 % Category 5C) 0.45 % Category 5D) 0.11 % Category 6) 0.064 % Category 7A) 0.26 % Category 7B) 0.26 % Category 8) 0.11 % Category 9) 1.5 % Category 10A) 1.5 % Category 10B) 3.5 % Category 11A) 0.11 % Category 11B) 0.11 % Category 12) No Restriction	
AMYL CYCLOPENTENONE	AMYL CYCLOPENTENONE	25564221	The European Commission restricts this ingredient to a maximum concentration of 0.10%.	
AMYL DEXTRIN	AMYL DEXTRIN	9005-84-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AMYL GLUCOSIDASE	Amyloglucosidase	9032080	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AMYL PECTIN	AMYL PECTIN	9037-22-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AMYL VINYL CARBINYL ACETATE	AMYL VINYL CARBINYL ACETATE	2442-10-6	The European Commission restricts this ingredient to a maximum concentration of 0.3% in nonoral products.	
AMYL VINYL CARBINYL ACETATE	IOCTEN3YL ACETATE	2442106	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.1% in deodorants/antiperspirants, 0.3% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.3% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.5% in mouthwashes, breath sprays, and toothpastes, 0.3% in intimate wipes, and baby wipes, 0.3% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.3% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
AMYL VINYL CARBINYL ACETATE	IOCTEN3YL ACETATE	2442106	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
ANACARDIUM OCCIDENTALE (CASHEW) SEED OIL	ANACARDIUM OCCIDENTALE (CASHEW) SEED OIL	8007-24-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
ANATASE	CLAYS AND MINERALS	1317-70-0	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ANATASE	ANATASE	1317-70-0	Per the U.S. FDA., titanium dioxide shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 1 part per million. Antimony (as Sb), not more than 2 parts per million. Mercury (as Hg), not more than 1 part per million. Loss on ignition at 800 °C. (after drying for 3 hours at 105 °C.), not more than 0.5 percent. Water soluble substances, not more than 0.3 percent. Acid soluble substances, not more than 0.5 percent. TiO2, not less than 99.0 percent after drying for 3 hours at 105 °C. Lead, arsenic, and antimony shall be determined in the solution obtained by boiling 10 grams of the titanium dioxide for 15 minutes in 50 milliliters of 0.5N hydrochloric acid.	x
ANCIENT SEA CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
ANGELICA ARCHANGELICA ROOT EXTRACT	Angelica root oil	84775417	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.80 % Category 2) 0.80 % Category 3) 0.80 % Category 4) 0.80 % Category 5A) 0.80 % Category 5B) 0.80 % Category 5C) 0.80 % Category 5D) 0.80 % Category 6) 0.80 % Category 7A) no restriction Category 7B) 0.80 % Category 8) 0.80 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.80 % Category 11A) no restriction Category 11B) 0.80 % Category 12) no restriction	
ANGELICA ROOT OIL	Angelica root oil	8015643	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in leaveon products	
ANGELICA ROOT OIL	Angelica root oil	8015643	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.80 % Category 2) 0.80 % Category 3) 0.80 % Category 4) 0.80 % Category 5A) 0.80 % Category 5B) 0.80 % Category 5C) 0.80 % Category 5D) 0.80 % Category 6) 0.80 % Category 7A) no restriction Category 7B) 0.80 % Category 8) 0.80 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.80 % Category 11A) no restriction Category 11B) 0.80 % Category 12) no restriction	
ANGELICA ROOT OIL	Angelica root oil	84775417	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.80 % Category 2) 0.80 % Category 3) 0.80 % Category 4) 0.80 % Category 5A) 0.80 % Category 5B) 0.80 % Category 5C) 0.80 % Category 5D) 0.80 % Category 6) 0.80 % Category 7A) no restriction Category 7B) 0.80 % Category 8) 0.80 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.80 % Category 11A) no restriction Category 11B) 0.80 % Category 12) no restriction	
ANGELICA SINENSIS (DONG QUAI)	Angelica sinensis		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ANHYDROXYLITOL	ANHYDROXYLITOL	53448-53-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ANISE ALCOHOL	ANISE ALCOHOL	105135	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ANISE ALCOHOL	Anisyl alcohol	105135	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.06% in deodorants/antiperspirants, 0.23% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.68% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.36% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.09% in mouthwashes, breath sprays, and toothpastes, 0.11% in intimate wipes, and baby wipes, 1.52% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ANISE ALCOHOL	Anisyl alcohol	1331813	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.06% in deodorants/antiperspirants, 0.23% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.68% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.36% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.09% in mouthwashes, breath sprays, and toothpastes, 0.11% in intimate wipes, and baby wipes, 1.52% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ANISE ALCOHOL	Anisyl alcohol	105135	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.028% Category 2) 0.039% Category 3) 0.025% Category 4) 0.21% Category 5A) 0.041% Category 5B) 0.0055% Category 5C) 0.033% Category 5D) 0.0020% Category 6) 0.091% Category 7A) 0.033% Category 7B) 0.033% Category 8) 0.0020% Category 9) 0.099% Category 10A) 0.099% Category 10B) 0.17% Category 11A) 0.0020% Category 11B) 0.0020% Category 12) 14%	
ANISE ALCOHOL	Anisyl alcohol	1331813	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.028% Category 2) 0.039% Category 3) 0.025% Category 4) 0.21% Category 5A) 0.041% Category 5B) 0.0055% Category 5C) 0.033% Category 5D) 0.0020% Category 6) 0.091% Category 7A) 0.033% Category 7B) 0.033% Category 8) 0.0020% Category 9) 0.099% Category 10A) 0.099% Category 10B) 0.17% Category 11A) 0.0020% Category 11B) 0.0020% Category 12) 14%	
ANISE EXTRACT	ANISE EXTRACT	84650599	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ANISIC ALDEHYDE	PMETHOXYBENZALDEHYDE	123115	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.13% in deodorants/antiperspirants, 0.54% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.61% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.84% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.53% in mouthwashes, breath sprays, and toothpastes, 0.27% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ANISIC ALDEHYDE	PMETHOXYBENZALDEHYDE	123115	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.043 % Category 2) 0.080 % Category 3) 0.022 % Category 4) 0.21 % Category 5A) 0.11 % Category 5B) 0.022 % Category 5C) 0.032 % Category 5D) 0.0072 % Category 6) 0.011 % Category 7A) 0.022 % Category 7B) 0.022 % Category 8) 0.0072 % Category 9) 0.065 % Category 10A) 0.065 % Category 10B) 0.21 % Category 11A) 0.0072 % Category 11B) 0.0072 % Category 12) 4.9 %	
Anisyl alcohol (o-,m-,p-)	Anisyl alcohol	1331813	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.06% in deodorants/antiperspirants, 0.23% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.68% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.36% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.09% in mouthwashes, breath sprays, and toothpastes, 0.11% in intimate wipes, and baby wipes, 1.52% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
Anisyl alcohol (o-,m-,p-)	Anisyl alcohol	1331813	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.028% Category 2) 0.039% Category 3) 0.025% Category 4) 0.21% Category 5A) 0.041% Category 5B) 0.0055% Category 5C) 0.033% Category 5D) 0.0020% Category 6) 0.091% Category 7A) 0.033% Category 7B) 0.033% Category 8) 0.0020% Category 9) 0.099% Category 10A) 0.099% Category 10B) 0.17% Category 11A) 0.0020% Category 11B) 0.0020% Category 12) 14%	
ANTHEMIS NOBILIS (CHAMOMILE)	Chamomile		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ANTHEMIS NOBILIS (CHAMOMILE) EXTRACT	Anthemis nobilis flower extract		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.1%	
ANTHEMIS NOBILIS (CHAMOMILE) FLOWER EXTRACT	Anthemis nobilis flower extract	84649-86-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.1%	
ANTHEMIS NOBILIS (CHAMOMILE) FLOWER OIL	Anthemis nobilis flower oil		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
ANTHEMIS NOBILIS (CHAMOMILE) WATER	Anthemis nobilis flower water		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 10%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ANTHRAQUINONE, 5,8-BIS((2-((2-HYDROXYETHYL)AMINO)ETHYL)AMINO)-1,4-DIHYDROXY-	Mitoxantrone	65271809	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
AO2	AO2	860-22-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 132)	x
APPLE CIDER CONCENTRATES	APPLE CIDER CONCENTRATES		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
APRICOT KERNEL AMINO ACIDS	APRICOT KERNEL AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
APRICOT KERNEL OIL PEG-40 ESTERS	Apricot Kernel Oil Peg40 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
APRICOT KERNEL OIL PEG-40 ESTERS	APRICOT KERNEL OIL PEG-40 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
APRICOT KERNEL OIL PEG-6 ESTERS	Apricot Kernel Oil Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
APRICOT KERNEL OIL PEG-6 ESTERS	APRICOT KERNEL OIL PEG-6 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
APRICOT KERNEL OIL PEG-8 ESTERS	Apricot Kernel Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
APRICOT KERNEL OIL PEG-8 ESTERS	APRICOT KERNEL OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
APRICOTAMIDE DEA	APRICOTAMIDE DEA	185123368	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
APRICOTAMIDE DEA	APRICOTAMIDE DEA	185123-36-8	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
APRICOTAMIDOPROPYL BETAINE	apricotamidopropyl betaine	133934084	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
ARABINOXYLAN	ARABINOXYLAN	9040-27-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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ARACHIDIC ACID	ARACHIDIC ACID	506-30-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ARACHIDYL GLUCOSIDE	Arachidyl Glucoside	100231683	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when formulated to be nonirritating up to 0.6%.	
ARACHIDYL PROPIONATE	ARACHIDYL PROPIONATE	65591-14-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
ARACHIS HYPOGAEA (PEANUT) EXTRACT	Peanut oil, extracts and derivatives		Europe restricts this chemical: Maximum concentration of peanut proteins: 0.5 ppm	
ARACHIS HYPOGAEA (PEANUT) OIL	PEANUT (ARACHIS HYPOGAEA) OIL	8002-03-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
ARACHIS HYPOGAEA (PEANUT) OIL	Peanut oil, extracts and derivatives	8002037	Europe restricts this chemical: Maximum concentration of peanut proteins: 0.5 ppm	
ARGAN OIL PEG-8 ESTERS	Argan Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ARGAN OIL PEG-8 ESTERS	ARGAN OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ARGININE HYDROCHLORIDE	ARGININE HYDROCHLORIDE	1119-34-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ARTEMISIA ARBORESCENS HERB OIL	ARTEMISIA ARBORESCENS HERB OIL	92113092	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ARTEMISIA ARBORESCENS HERB OIL	ARTEMISIA ARBORESCENS HERB OIL	92113092	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ARTEMISIA DRACUNCULUS	ARTEMISIA DRACUNCULUS		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ARTEMISIA DRACUNCULUS	ARTEMISIA DRACUNCULUS		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ARTEMISIA DRACUNCULUS	ARTEMISIA DRACUNCULUS		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
Artemisia Dracunculus (Tarragon) Oil	Artemisia Dracunculus (Tarragon) Oil	8016884	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
Artemisia Dracunculus (Tarragon) Oil	Artemisia Dracunculus (Tarragon) Oil	8016884	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
Artemisia Dracunculus (Tarragon) Oil	Artemisia Dracunculus (Tarragon) Oil	8016884	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
ARTEMISIA DRACUNCULUS (TARRAGON) ROOT EXTRACT	ARTEMISIA DRACUNCULUS (TARRAGON) ROOT EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ARTEMISIA DRACUNCULUS (TARRAGON) ROOT EXTRACT	ARTEMISIA DRACUNCULUS (TARRAGON) ROOT EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ARTEMISIA DRACUNCULUS (TARRAGON) ROOT EXTRACT	ARTEMISIA DRACUNCULUS (TARRAGON) ROOT EXTRACT		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
ARTEMISIA DRACUNCULUS HERB EXTRACT	ARTEMISIA DRACUNCULUS HERB EXTRACT	90131456	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ARTEMISIA DRACUNCULUS HERB EXTRACT	ARTEMISIA DRACUNCULUS HERB EXTRACT	90131456	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ARTEMISIA DRACUNCULUS HERB EXTRACT	ARTEMISIA DRACUNCULUS HERB EXTRACT	90131456	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
ARTEMISIA DRACUNCULUS LEAF/STEM EXTRACT	ARTEMISIA DRACUNCULUS LEAF/STEM EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ARTEMISIA DRACUNCULUS LEAF/STEM EXTRACT	ARTEMISIA DRACUNCULUS LEAF/STEM EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ARTEMISIA DRACUNCULUS LEAF/STEM EXTRACT	ARTEMISIA DRACUNCULUS LEAF/STEM EXTRACT		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
ASARUM CANADENSE ROOT OIL	ASARUM CANADENSE ROOT OIL	89957733	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ASARUM CANADENSE ROOT OIL	ASARUM CANADENSE ROOT OIL	89957733	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ASCOPHYLLUM NODOSUM (KNOTTED WRACK) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ASCOPHYLLUM NODOSUM (KNOTTED WRACK) EXTRACT	ASCOPHYLLUM NODOSUM (KNOTTED WRACK) EXTRACT	84775-78-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASCOPHYLLUM NODOSUM POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ASCOPHYLLUM NODOSUM POWDER	ASCOPHYLLUM NODOSUM POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASCORBIC ACID (VITAMIN C)	LAscorbic acid	50817	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
ASCORBYL GLUCOSIDE	ASCORBYL GLUCOSIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASCORBYL LINOLEATE	ASCORBYL LINOLEATE	121869-32-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASCORBYL PALMITATE (VITAMIN C PALMITATE)	ASCORBYL PALMITATE	137666	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
ASCORBYL TETRAISOPALMITATE	ASCORBYL TETRAISOPALMITATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASCORBYL TOCOPHERYL MALEATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	

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ASCORBYL TOCOPHERYL MALEATE	ASCORBYL TOCOPHERYL MALEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASPARAGINE	ASPARAGINE	70-47-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASPARTIC ACID	ASPARTIC ACID	56-84-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASPARTIC ACID, DISODIUM SALT, L-	ASPARTIC ACID, DISODIUM SALT, L-	5598-53-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASPERGILLUS/RICE FERMENT FILTRATE	ASPERGILLUS/RICE FERMENT FILTRATE		This substance may not contain detectable levels of aflatoxins, which are produced by some species of Aspergillus.	
ASTRAGALUS GUMMIFER GUM	tragacanth (Astragalus gummifer) gum	9000-65-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
ASTRAGALUS GUMMIFER GUM	ASTRAGALUS GUMMIFER GUM	9000-65-1	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
ASTRAGALUS GUMMIFER GUM	ASTRAGALUS GUMMIFER GUM	9000-65-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ASTROCARYUM MURUMURU SEED BUTTER	ASTROCARYUM MURUMURU SEED BUTTER	356065-49-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
ASTROCARYUM MURUMURU SEED BUTTER	ASTROCARYUM MURUMURU SEED BUTTER	356065-49-1	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 7%.	
ATELOCOLLAGEN	ATELOCOLLAGEN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ATTAPULGITE	attapulgit	12174117	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
ATTAPULGITE	CLAYS AND MINERALS	1337-76-4	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
AUSTRALIAN RED REEF CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
AVENA SATIVA (OAT) BRAN	AVENA SATIVA (OAT) BRAN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) BRAN EXTRACT	AVENA SATIVA (OAT) BRAN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) KERNEL EXTRACT	AVENA SATIVA (OAT) KERNEL EXTRACT	84012-26-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) KERNEL FLOUR	AVENA SATIVA (OAT) KERNEL FLOUR	134134864	The Cosmetic Ingredient Review identified heavy metals as a possible contaminant therefore this substance must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	x
AVENA SATIVA (OAT) KERNEL MEAL	AVENA SATIVA (OAT) KERNEL MEAL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) KERNEL OIL	AVENA SATIVA (OAT) KERNEL OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	

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AVENA SATIVA (OAT) KERNEL PROTEIN	AVENA SATIVA (OAT) KERNEL PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) LEAF EXTRACT	AVENA SATIVA (OAT) LEAF EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) MEAL EXTRACT	AVENA SATIVA (OAT) MEAL EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) PROTEIN EXTRACT	AVENA SATIVA (OAT) PROTEIN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVENA SATIVA (OAT) STARCH	AVENA SATIVA (OAT) STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
AVENA SATIVA (OAT) STRAW EXTRACT	AVENA SATIVA (OAT) STRAW EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
AVOBENZONE	4TERTBUTYL4METHOXYDIBENZOYL METHANE	70356-09-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10%.	
AVOCADAMIDE DEA	AVOCADAMIDE DEA	124046215	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
AVOCADAMIDE DEA	AVOCADAMIDE DEA	124046-21-5	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nitroso compounds cannot form.	
AVOCADAMIDOPROPYL BETAINE	AVOCADAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
AVOCADAMIDOPROPYL DIMETHYLAMINE	Avocamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
AVOCADO OIL PEG-11 ESTERS	Avocado Oil Peg11 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
AVOCADO OIL PEG-11 ESTERS	AVOCADO OIL PEG-11 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
AVOCADO OIL PEG-8 ESTERS	Avocado Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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AVOCADO OIL PEG-8 ESTERS	AVOCADO OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
AVOCADO OIL PROPYLENE GLYCOL ESTERS	AVOCADO OIL PROPYLENE GLYCOL ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
AZELAIC ACID	AZELAIC ACID	123-99-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3% in leaveon products and 10% in rinseoff products.	
AZELAIC ACID	AZELAIC ACID	123-99-9	These ingredients were added to the list of restricted substances due to known therapeutic properties and risk of skin irritation at concentrations above the maximum permitted concentration of 14%.	x
AZELAMIDE MEA	AZELAMIDE MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
Aziridine, homopolymer, ethoxylated	Aziridine, homopolymer, ethoxylated	68130-99-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BABASSU OIL GLYCERETH-8 ESTERS	Babassu Oil Glycereth8Esters	31694-55-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BABASSU OIL GLYCERETH-8 ESTERS	Babassu Oil Glycereth8Esters	31694-55-0	The Cosmetic Ingredient Review has determined that a similar ingredient is safe as used up to a concentration of 11.3%	
BABASSUAMIDE DEA	BABASSUAMIDE DEA	124046248	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
BABASSUAMIDE DEA	BABASSUAMIDE DEA	124046-24-8	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
BABASSUAMIDE MEA	BABASSUAMIDE MEA		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
BABASSUAMIDE MEA	BABASSUAMIDE MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
BABASSUAMIDOPROPYL BETAINE	BABASSUAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	

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BABASSUAMIDOPROPYL DIMETHYLAMINE	BABASSUAMIDOPROPYL DIMETHYLAMINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
BAKUCHIOL	BAKUCHIOL	10309372	Based on a clinical study, bakuchiol may be used up to 1% in a cosmetics product.	
BARIUM	Barium	7440-39-3	Health Canada restricts the use of this ingredient, in the form of barium sulfate, as a colouring agent or as a lake for preparation of other colouring agents and barium sulfide.	
BARIUM SILICOFLUORIDE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
BARIUM SULFIDE	barium sulfide	21109955	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
BARIUM SULFIDE	BARIUMSULFIDE	21109955	Health Canada restricts this ingredient to a maximum concentration of 6% (sulfur) in depilatory products.	
BAROSMA BETULINA LEAF EXTRACT		84649-93-4	The Cosmetic Ingredient Review restricts the pulegone content of a similar ingredient to a maximum concentration of 1%.	
BASIC BLUE 99	BASIC BLUE 99	68123-13-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
BASIC ORANGE 31	BASIC ORANGE 31	97404-02-9	Per COSING, the maximum concentration in ready to use preparation is 1%.	x
BASIC RED 76	BASIC RED 76	68391-30-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BASIC YELLOW 57	BASIC YELLOW 57	68391311	The European Commission restricts this ingredient to a maximum concentration of 2.0% in nonoxidative hair dye products.	
BASSIA LATIFOLIA SEED BUTTER	BASSIA LATIFOLIA SEED BUTTER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
BATYL ALCOHOL	BATYL ALCOHOL	544-62-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
Bay oil, terpeneless	Bay oil, terpeneless	68916052	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
Bay oil, terpeneless	Bay oil, terpeneless	68916052	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

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Bay oil, terpeneless	Bay oil, terpeneless	68916052	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
BEESWAX	BEESWAX	8012893	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 50%.	
BEESWAX ACID	BEESWAX ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
BEETROOT RED	BEETROOT RED	89957-88-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E162)	x
BEHENAMIDE DEA	BEHENAMIDE DEA	70496398	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
BEHENAMIDE DEA	BEHENAMIDE DEA	70496-39-8	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
BEHENAMIDE MEA	BEHENAMIDE MEA	94109-05-4	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
BEHENAMIDOPROPYL DIMETHYLAMINE	Behenamidopropyl dimethylamine	60270339	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
BEHENETH-30	Beheneth30	26636-40-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BEHENIC ACID	BEHENIC ACID	112-85-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
BEHENOXY DIMETHICONE	BEHENOXY DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BEHENOXY PEG-10 DIMETHICONE	BEHENOXY PEG-10 DIMETHICONE	1136947-78-8	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BEHENOXY PEG-10 DIMETHICONE	BEHENOXY PEG-10 DIMETHICONE	1136947-78-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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BEHENTRIMONIUM CHLORIDE	BEHENTRIMONIUM CHLORIDE	17301-53-0	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
BEHENTRIMONIUM DIMETHICONE PEG-8 PHTHALATE	Behentrimonium Dimethicone Peg8 Phthalate		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BEHENYL ALCOHOL	BEHENYL ALCOHOL	661-19-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 26%.	
BEHENYL BENZOATE	Benzoate	103403-38-9	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
BEHENYL BETAINE	BEHENYL BETAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
BEHENYL DIMETHICONE	BEHENYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BENZALDEHYDE	benzaldehyde	100527	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
BENZALDEHYDE	benzaldehyde	100527	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.02% in deodorants/antiperspirants, 0.09% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.27% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.14% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.43% in mouthwashes, breath sprays, and toothpastes, 0.05% in intimate wipes, and baby wipes, 0.6% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 3% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
BENZALDEHYDE	benzaldehyde	100527	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.045 % Category 2) 0.014 % Category 3) 0.27 % Category 4) 0.25 % Category 5A) 0.064 % Category 5B) 0.064 % Category 5C) 0.064 % Category 5D) 0.021 % Category 6) 0.15 % Category 7A) 0.52 % Category 7B) 0.52 % Category 8) 0.021 % Category 9) 0.49 % Category 10A) 0.49 % Category 10B) 1.8 % Category 11A) 0.021 % Category 11B) 0.021 % 12) No Restriction	
BENZALKONIUM BROMIDE	BENZALKONIUM BROMIDE	91080294	The European Commission restricts this ingredient to a maximum concentration of 3% (as benzalkonium chloride) in rinseoff hair (head) products. In the final products, the concentrations of benzalkonium chloride, bromide and saccharinate with alkyl chain of C14 or less must not exceed 0.1% (as benzalkonium chloride). Required Warning: The European Commission requires the following warning text on the product label/package: 'Avoid contact with the eyes'	
BENZALKONIUM CHLORIDE	Benzalkonium Chloride	8001545	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1% as the free active ingredient.	

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BENZALKONIUM CHLORIDE	BENZALKONIUMCHLORIDE	8001545	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
BENZALKONIUM CHLORIDE	BENZALKONIUMCHLORIDE	61789717	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
BENZALKONIUM CHLORIDE	BENZALKONIUMCHLORIDE	68391015	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
BENZALKONIUM CHLORIDE	BENZALKONIUMCHLORIDE	68424851	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
BENZALKONIUM CHLORIDE	BENZALKONIUMCHLORIDE	85409229	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
BENZALKONIUM CHLORIDE	BENZALKONIUMCHLORIDE	61789-71-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in products meant to be applied to the mucosa.	
BENZALKONIUM CHLORIDE	BENZALKONIUMCHLORIDE	61789-71-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in leaveon products (not applied to mucosa).	
BENZALKONIUM CHLORIDE	Benzalkonium Chloride	68391015	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
BENZALKONIUM CHLORIDE	Alkyl Dimethyl Benzyl Ammonium Chloride	61789717	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BENZENE-1,2:4,5-TETRACARBOXYLIC DIANHYDRIDE	Pyromellitic Dianhydride	89327	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	

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BENZENE-1,2,4,5-TETRACARBOXYLIC DIANHYDRIDE	Pyromellitic Dianhydride	89327	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BENZENEACETYL CHLORIDE, ALPHA-AMINO-, HYDROCHLORIDE, (ALPHA-R)-	Phenylglycine Acid Chloride	39878870	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BENZENEMETHANAMINIUM, AR-DODECYL-N,N-DIMETHYL-N-TETRADECYL-, CHLORIDE	BENZENEMETHANAMINIUM, AR-DODECYL-N,N-DIMETHYL-N-TETRADECYL-, CHLORIDE	87175-02-8	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
BENZENEPROPANAL, 4-METHOXY-ALPHA-METHYL-	4Methoxy α methylbenzenepropanal	5462066	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.28% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
BENZENESULFONIC ACID, ((4-(BIS(4-((SULFOPHENYL)AMINO)PHENYL)METHYLENE)-2,5-CYCLOHEXADIEN-1-	Methyl Blue	28983564	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BENZETHONIUM CHLORIDE	BENZETHONIUM CHLORIDE	121540	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5% in skin products and 0.02% in eye products.	
BENZETHONIUM CHLORIDE	BENZETHONIUMCHLORIDE	121540	Health Canada restricts this ingredient to a maximum concentration of 0.2% in leaveon products and 0.3% in rinseoff products. Additionally, the ingredient cannot be used in products applied to mucous membranes.	
BENZETHONIUM CHLORIDE	BENZETHONIUMCHLORIDE	121-54-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in rinseoff products (not applied to mucosa).	
BENZETHONIUM CHLORIDE	BENZETHONIUMCHLORIDE	121-54-0	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
BENZETHONIUM CHLORIDE	BENZETHONIUMCHLORIDE	121-54-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.2% in leaveon products (not applied to mucosa).	
BENZETHONIUM CHLORIDE	Benzenemethanaminium, N,NdimethylN[2[2[4(1,1,3,3,tetramethylbutyl)phenoxy]ethoxy]ethyl], chloride	121540	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10% in rinseoff products and leaveon products (with the exception of oral products).	
BENZINE (MOTOR FUEL)	BENZINE (MOTOR FUEL)	86290815	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
BENZOIC ACID	Benzoic acid	65850	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
BENZOIC ACID	Benzoic acid	65-85-0	The Japanese Ministry of Health, Labour and Welfare restricts benzoic acid to a maximum concentration of 0.2% (w/w) in the finished product.	
BENZOIC ACID, 2-((1-HYDROXY-4-SULFO-2-NAPHTHALENYL)AZO)-, DISODIUM SALT	Chromium Compounds	6408-82-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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BENZOIC ACID, 2-HYDROXY-5-((4-SULFOPHENYL)AZO)-, DISODIUM SALT	Chromium Compounds	6054-99-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
BENZOIC ACID, O-CHLORO-, NICKEL(II) SALT	Nickel Compounds	7250-60-4	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
BENZOPHENONE-1	BENZOPHENONE1	131566	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
BENZOPHENONE-10	BENZOPHENONE-10	1641-17-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BENZOPHENONE-11	BENZOPHENONE11	1341544	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
BENZOPHENONE-12	BENZOPHENONE-12	1843-05-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BENZOPHENONE-2	BENZOPHENONE2	131-55-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
BENZOPHENONE-5	BENZOPHENONE5	6628371	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
BENZOPHENONE-5	SODIUMHYDROXYMETHOXYBENZOPHENONESULFONATE	6628-37-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
BENZOPHENONE-5	SODIUMHYDROXYMETHOXYBENZOPHENONESULFONATE	6628-37-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1% in products meant to be applied to the mucosa.	
BENZOPHENONE-5	SODIUMHYDROXYMETHOXYBENZOPHENONESULFONATE	6628-37-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
BENZOPHENONE-6	BENZOPHENONE6	131-54-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
BENZOPHENONE-6	Dihydroxydimethoxybenzophenone	131-54-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
BENZOPHENONE-6	Dihydroxydimethoxybenzophenone	131-54-4	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
BENZOPHENONE-6	Dihydroxydimethoxybenzophenone	131-54-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
BENZOPHENONE-8	BENZOPHENONE8	131-53-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
BENZOPHENONE-9	BENZOPHENONE9	76656365	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%.	
BENZOYL BENZOATE	Benzoate	93-97-0	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
BENZOYL PEROXIDE	Benzoyl peroxide	94360	The European Commission restricts this ingredient to a maximum concentration of 0.7% after mixing for use in artificial nail systems. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only'; 'Avoid skin contact'; 'Read directions for use carefully'	
BENZYL ALCOHOL	benzyl alcohol	100516	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BENZYL ALCOHOL	benzyl alcohol	100516	Required Warning: The European Commission requires the following on the product label/package: For purposes other than inhibiting the development of microorganisms in the product, the ingredient's purpose; The presence of the substance must be indicated in the list of ingredients referred when its concentration exceeds: 0.001% in leaveon products and 0.01% in rinseoff products.	
BENZYL ALCOHOL	benzyl alcohol	100516	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.2% in deodorants/antiperspirants, 0.9% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.4% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
BENZYL ALCOHOL	Benzyl alcohol (7)	100516	(*) The European Commission restricts this ingredient to a maximum concentration of 1.00%	
BENZYL ALCOHOL	benzyl alcohol	100516	Based on the IFRA 49th Amendment, this ingredient is limited to the concentrations outlined below according to product use and category (as outlined in the 49th amendment): Category 1 - 0.45%; Category 2 - 0.14%; Category 3 - 0.34%; Category 4 - 2.5%; Category 5a - 0.64%; Category 5b - 0.17%; Category 5c - 0.34%; Category 5d - 0.057%; Category 6 - 1.5%; Category 7a - 0.68%; Category 7b - 0.68%; Category 8 - 0.057%; Category 9 - 2.2%; Category 10a - 2.2%; Category 10b - 8.5%; Category 11a - 0.057%; Category 11b - 0.057%; There is no restriction for Category 12.	
BENZYL BENZOATE	benzyl benzoate	120514	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
BENZYL BENZOATE	benzyl benzoate	120514	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.7% in lip products, 2.2% in deodorants/antiperspirants, 8.9% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 26.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 14% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 42.8% in mouthwashes, breath sprays, and toothpastes, 4.5% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
BENZYL BENZOATE	benzyl benzoate	120-51-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 4%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BENZYL BENZOATE	benzyl benzoate	120514	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 1.7 % Category 2) 1.4 % Category 3) 0.41 % Category 4) 4.8 % Category 5A) 4.3 % Category 5B) 0.21 % Category 5C) 0.83 % Category 5D) 0.070 % Category 6) 0.41 % Category 7A) 0.41 % Category 7B) 0.41 % Category 8) 0.070 % Category 9) 1.9 % Category 10A) 1.9 % Category 10B) 12 % Category 11A) 0.070 % Category 11B) 0.070 % Category 12) No Restriction	
BENZYL CINNAMATE	Benzyl cinnamate	103413	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
BENZYL CINNAMATE	Benzyl cinnamate	103413	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.2% in deodorants/antiperspirants, 0.7% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 3.4% in mouthwashes, breath sprays, and toothpastes, 0.4% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
BENZYL CINNAMATE	Benzyl cinnamate	103413	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.36 % Category 2) 0.11 % Category 3) 1.2 % Category 4) 2.0 % Category 5A) 0.51 % Category 5B) 0.51 % Category 5C) 0.51 % Category 5D) 0.17 % Category 6) 1.2 % Category 7A) 2.4 % Category 7B) 2.4 % Category 8) 0.17 % Category 9) 3.9 % Category 10A) 3.9 % Category 10B) 14 % Category 11A) 0.17 % Category 11B) 0.17 % Category 12) No Restriction	
BENZYL SALICYLATE	Benzyl salicylate	118581	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
BENZYL SALICYLATE	Benzyl salicylate	118581	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.5% in lip products, 0.7% in deodorants/antiperspirants, 2.7% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 8% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 4.2% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 12.8% in mouthwashes, breath sprays, and toothpastes, 1.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BENZYL SALICYLATE	Benzyl salicylate	118581	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 1.3 % Category 2) 0.39 % Category 3) 7.8 % Category 4) 7.3 % Category 5A) 1.9 % Category 5B) 1.9 % Category 5C) 1.9 % Category 5D) 1.9 % Category 6) 4.3 % Category 7A) 15 % Category 7B) 15 % Category 8) 0.77 % Category 9) 14 % Category 10A) 51 % Category 10B) 51 % Category 11A) 28 % Category 11B) 28 % Category 12) No Restriction	
BENZYL SALICYLATE	BENZYL SALICYLATE	118-58-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
BENZYLHEMIFORMAL	Methanol, (phenylmethoxy)	14548608	(*) The European Commission restricts this ingredient to a maximum concentration of 0.15% in rinseoff products.	
BENZYLHEMIFORMAL	BENZYLHEMIFORMAL	14548-60-8	Per COSING, the maximum concentration in RTU preparation is 0.15%	x
BENZYLPARABEN	Benzylparaben	94-18-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% if used alone and 0.8% in a paraben mixture.	
BERTHOLLETIA EXCELSA (BRAZILNUT) SEED OIL	BERTHOLLETIA EXCELSA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
BERTHOLLETIA EXCELSA SEED OIL PEG-8 ESTERS	Bertholletia Excelsa Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BERTHOLLETIA EXCELSA SEED OIL PEG-8 ESTERS	BERTHOLLETIA EXCELSA SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
BERTRANDITE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
BERYL	Aluminum Compounds	1302-52-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BERYL	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
BERYLLIUM ALUMINUM ALLOY	Aluminum Compounds	12770-50-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BETA HYDROXY ACIDS	Salicylic acid	69727	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
BETA HYDROXY ACIDS	SALICYLICACID	69727	Health Canada restricts this ingredient to a maximum concentration of 2%.	
BETA HYDROXY ACIDS	SALICYLICACID		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.2%.	
BETA TOCOPHEROLS	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
BETA VULGARIS (COMMON BEET)	BETA VULGARIS (COMMON BEET)		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
beta-cedrene	Cedrene	546281	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
BETA-GLUCAN	BETA-GLUCAN	55965-23-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BETA-GLUCAN HYDROXYPROPYLTRIMONIUM CHLORIDE	BETA-GLUCAN HYDROXYPROPYLTRIMONIUM CHLORIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BETA-GLUCAN PALMITATE	BETA-GLUCAN PALMITATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
beta-PINENES	BETAPINENES	127913	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L	
BETAINE	BETAINE	107437	This substance may not contain detectable levels of heavy metals, dioxins, polycyclic aromatic hydrocarbons, or polychlorinated biphenyls.	
BETULA ALBA (BIRCH) LEAF OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA ALBA (BIRCH) LEAF OIL EXTRACT	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA ALBA (BIRCH) OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA ALBA OIL	Birch wood pyrolysate (purified)	8001885	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA ALBA OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA LENTA (BIRCH) BARK OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA LENTA (SWEET BIRCH) OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA LENTA (SWEET BIRCH) OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA NIGRA (BIRCH) OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BETULA PENDULA TWIG OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BETULA PUBESCENS TWIG OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BHA	BHA	25013-16-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
BHA	Butylated hydroxyanisole	25013165	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
BHT	BHT	128-37-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
BICARBOSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
BICYCLO(4.1.0)HEPT-3-ENE, 3,7,7(OR 4,7,7)-TRIMETHYL-	Carene	13466789	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
BICYCLO(4.1.0)HEPT-3-ENE, 3,7,7(OR 4,7,7)-TRIMETHYL-	Carene	13466789	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BIOSACCHARIDE GUM-1	BIOSACCHARIDE GUM1	223266931	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 6%.	
BIOSACCHARIDE GUM-1	BIOSACCHARIDE GUM-1		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIOSACCHARIDE GUM-2	BIOSACCHARIDE GUM2		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%.	
BIOSACCHARIDE GUM-2	BIOSACCHARIDE GUM-2		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIOSACCHARIDE GUM-3	BIOSACCHARIDE GUM-3		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIOSACCHARIDE GUM-4	BIOSACCHARIDE GUM-4	905593-86-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIOTIN	BIOTIN	58855	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
BIRCH TAR OIL	Birch wood pyrolysate (purified)	84012157	The International Fragrance Association prohibits use of the crude material and restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
BIS ISOBUTYL PEG/PPG-20/35/AMODIMETHICONE COPOLYMER	BIS ISOBUTYL PEG/PPG20/35/AMODIMETHICONE COPOLYMER		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
BIS ISOBUTYL PEG/PPG-20/35/AMODIMETHICONE COPOLYMER	BIS ISOBUTYL PEG/PPG-20/35/AMODIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BIS PG-AMODIMETHICONE	BIS PG-AMODIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-[4-(2,3-EPOXI PROPOXI)PHENYL]PROPANE	Bisphenol A diglycidyl ether (BADGE)	1675543	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
BIS-BUTYLDIMETHICONE POLYGLYCERYL-3	BIS-BUTYLDIMETHICONE POLYGLYCERYL-3		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-BUTYLOXYAMODIMETHICONE/PEG-60 COPOLYMER	BisButyloxyamodimethicone/peg60 Copolymer		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-C16-20 ISOALKOXY TMHDI/PEG-90 COPOLYMER	BIS-C16-20 ISOALKOXY TMHDI/PEG-90 COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-CETEARYL AMODIMETHICONE	BIS-CETEARYL AMODIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-DIGLYCERYL POLYACYLADIPATE-1	BIS-DIGLYCERYL POLYACYLADIPATE-1		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-DIGLYCERYL POLYACYLADIPATE-2	BIS-DIGLYCERYL POLYACYLADIPATE-2	82249-33-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-HYDROXY/METHOXY AMODIMETHICONE	BIS-HYDROXY/METHOXY AMODIMETHICONE	831241-93-1	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-HYDROXYETHOXYPROPYL DIMETHICONE	BIS-HYDROXYETHOXYPROPYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-HYDROXYETHOXYPROPYL DIMETHICONE	BIS-HYDROXYETHOXYPROPYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-HYDROXYETHOXYPROPYL DIMETHICONE BEESWAX ESTERS	BIS-HYDROXYETHOXYPROPYL DIMETHICONE BEESWAX ESTERS		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-HYDROXYETHOXYPROPYL DIMETHICONE/IPDI COPOLYMER ETHYL CARBAMATE	BIS-HYDROXYETHOXYPROPYL DIMETHICONE/IPDI COPOLYMER ETHYL CARBAMATE	628723-36-4	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-HYDROXYETHYL TOCOPHERYLSUCCINOYLAMIDO HYDROXYPROPANE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	

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BIS-HYDROXYLAURYL DIMETHICONE/IPDI COPOLYMER	BIS-HYDROXYLAURYL DIMETHICONE/IPDI COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-ISOBUTYL PEG-14/AMODIMETHICONE COPOLYMER	BISISOBUTYL PEG14/AMODIMETHICONE COPOLYMER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-ISOBUTYL PEG-14/AMODIMETHICONE COPOLYMER	BISISOBUTYL PEG14/AMODIMETHICONE COPOLYMER		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
BIS-ISOBUTYL PEG-14/AMODIMETHICONE COPOLYMER	BIS-ISOBUTYL PEG-14/AMODIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-ISOBUTYL PEG-14/AMODIMETHICONE COPOLYMER	BIS-ISOBUTYL PEG-14/AMODIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-ISOBUTYL PEG-15/AMODIMETHICONE COPOLYMER	BISISOBUTYL PEG15/AMODIMETHICONE COPOLYMER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-ISOBUTYL PEG-15/AMODIMETHICONE COPOLYMER	BISISOBUTYL PEG15/AMODIMETHICONE COPOLYMER		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
BIS-PEG-1 DIMETHICONE	BisPeg1 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-1 DIMETHICONE	BIS-PEG-1 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG-12 DIMETHICONE	BisPeg12 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-12 DIMETHICONE	BIS-PEG-12 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG-12 DIMETHICONE	BIS-PEG-12 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BIS-PEG-12 DIMETHICONE BEESWAX	BisPeg12 Dimethicone Beeswax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-12 DIMETHICONE BEESWAX	BIS-PEG-12 DIMETHICONE BEESWAX		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG-12 DIMETHICONE BEESWAX	BIS-PEG-12 DIMETHICONE BEESWAX		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG-12 DIMETHICONE CANDELILLATE	BisPeg12 Dimethicone Candelillate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-12 DIMETHICONE CANDELILLATE	BIS-PEG-12 DIMETHICONE CANDELILLATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG-12 DIMETHICONE CANDELILLATE	BIS-PEG-12 DIMETHICONE CANDELILLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG-15 DIMETHICONE/ IPDI COPOLYMER	BisPeg15 Dimethicone/ Ipdi Copolymer	190793181	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-15 DIMETHICONE/ IPDI COPOLYMER	BIS-PEG-15 DIMETHICONE/ IPDI COPOLYMER	190793-18-1	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG-15 METHYL ETHER DIMETHICONE	BisPeg15 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-15 METHYL ETHER DIMETHICONE	BIS-PEG-15 METHYL ETHER DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG-15 METHYL ETHER DIMETHICONE	BIS-PEG-15 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG-18 METHYL ETHER	BisPeg18 Methyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BIS-PEG-18 METHYL ETHER DIMETHYL SILANE	BisPeg18 Methyl Ether Dimethyl Silane		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-20 DIMETHICONE	BisPeg20 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-20 DIMETHICONE	BIS-PEG-20 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG-4 DIMETHICONE	BisPeg4 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-4 DIMETHICONE	BIS-PEG-4 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG-4 DIMETHICONE	BIS-PEG-4 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG-8 DIMETHICONE	BisPeg8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG-8 DIMETHICONE	BIS-PEG-8 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG-8 DIMETHICONE	BIS-PEG-8 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG/ PPG-14/ 14 DIMETHICONE	BisPeg/ Ppg14/ 14 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG/ PPG-14/ 14 DIMETHICONE	BIS-PEG/ PPG-14/ 14 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG/ PPG-14/ 14 DIMETHICONE	BIS-PEG/ PPG-14/ 14 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BIS-PEG/ PPG-16/ 16 DIMETHICONE	BisPeg/ Ppg16/ 16 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG/ PPG-16/ 16 DIMETHICONE	BIS-PEG/ PPG-16/ 16 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG/ PPG-20/ 20 DIMETHICONE	BisPeg/ Ppg20/ 20 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG/ PPG-20/ 20 DIMETHICONE	BIS-PEG/ PPG-20/ 20 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG/ PPG-20/ 20 DIMETHICONE	BIS-PEG/ PPG-20/ 20 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-PEG/PPG-16/16 PEG/PPG-16/16 DIMETHICONE	BisPeg/ppg16/16 Peg/ppg16/16 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIS-PEG/PPG-16/16 PEG/PPG-16/16 DIMETHICONE	BIS-PEG/PPG-16/16 PEG/PPG-16/16 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-PEG/PPG-16/16 PEG/PPG-16/16 DIMETHICONE	BIS-PEG/PPG-16/16 PEG/PPG-16/16 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BIS-STEARYL DIMETHICONE	BIS-STEARYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS-VINYL DIMETHICONE/DIMETHICONE COPOLYMER	BIS-VINYL DIMETHICONE/DIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BIS(C13-15 ALKOXY) PG-AMODIMETHICONE	BIS(C13-15 ALKOXY) PG-AMODIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BISABOLOL	BISABOLOL	515-69-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BISABOLOL	αBisabolol	515695	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.42 % Category 2) 0.13 % Category 3) 2.5 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.60 % Category 5C) 0.60 % Category 5D) 0.20 % Category 6) 1.4 % Category 7A) 3.0 % Category 7B) 3.0 % Category 8) 0.20 % Category 9) 4.6 % Category 10A) 4.6 % Category 10B) 17 % Category 11A) 0.20 % Category 11B) 0.20 % Category 12) No Restriction	
BISABOLOL	αBisabolol	23089261	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.42 % Category 2) 0.13 % Category 3) 2.5 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.60 % Category 5C) 0.60 % Category 5D) 0.20 % Category 6) 1.4 % Category 7A) 3.0 % Category 7B) 3.0 % Category 8) 0.20 % Category 9) 4.6 % Category 10A) 4.6 % Category 10B) 17 % Category 11A) 0.20 % Category 11B) 0.20 % Category 12) No Restriction	
BISABOLOL	αBisabolol	23178883	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.42 % Category 2) 0.13 % Category 3) 2.5 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.60 % Category 5C) 0.60 % Category 5D) 0.20 % Category 6) 1.4 % Category 7A) 3.0 % Category 7B) 3.0 % Category 8) 0.20 % Category 9) 4.6 % Category 10A) 4.6 % Category 10B) 17 % Category 11A) 0.20 % Category 11B) 0.20 % Category 12) No Restriction	
BISABOLOL	αBisabolol	78148591	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.42 % Category 2) 0.13 % Category 3) 2.5 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.60 % Category 5C) 0.60 % Category 5D) 0.20 % Category 6) 1.4 % Category 7A) 3.0 % Category 7B) 3.0 % Category 8) 0.20 % Category 9) 4.6 % Category 10A) 4.6 % Category 10B) 17 % Category 11A) 0.20 % Category 11B) 0.20 % Category 12) No Restriction	
BISABOLOL	αBisabolol	76738755	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.42 % Category 2) 0.13 % Category 3) 2.5 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.60 % Category 5C) 0.60 % Category 5D) 0.20 % Category 6) 1.4 % Category 7A) 3.0 % Category 7B) 3.0 % Category 8) 0.20 % Category 9) 4.6 % Category 10A) 4.6 % Category 10B) 17 % Category 11A) 0.20 % Category 11B) 0.20 % Category 12) No Restriction	
BISABOLOL	αBisabolol	72691248	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.42 % Category 2) 0.13 % Category 3) 2.5 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.60 % Category 5C) 0.60 % Category 5D) 0.20 % Category 6) 1.4 % Category 7A) 3.0 % Category 7B) 3.0 % Category 8) 0.20 % Category 9) 4.6 % Category 10A) 4.6 % Category 10B) 17 % Category 11A) 0.20 % Category 11B) 0.20 % Category 12) No Restriction	
BISAMINO PEG/ PPG-41/ 3 AMINOETHYL PG-PROPYL DIMETHICONE	Bisamino Peg/ Ppg41/ 3 Aminoethyl PgPropyl Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BISAMINO PEG/ PPG-41/ 3 AMINOETHYL PG-PROPYL DIMETHICONE	BISAMINO PEG/ PPG-41/ 3 AMINOETHYL PG-PROPYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BISMUTH CITRATE	BISMUTH CITRATE	813-93-4	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
BISMUTH CITRATE	BISMUTH CITRATE	813-93-4	Per the U.S. FDA., the color additive bismuth citrate shall conform to the following specifications and shall be free from impurities other than those named to the extent that those impurities may be avoided by good manufacturing practice: Bismuth citrate, not less than 97 percent. Mercury (as Hg), not more than 1 part per million. Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 20 parts per million. Volatile matter, not more than 1 percent.	x
BISMUTH OXYCHLORIDE	BISMUTH OXYCHLORIDE	7787-59-9	Per the U.S. FDA., the color additive bismuth oxychloride shall conform to the following specifications and shall be free from impurities other than those named to the extent that such other impurities may be avoided by good manufacturing practice: Volatile matter, not more than 0.5 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million. Bismuth oxychloride, not less than 98 percent.; (2) Color additive mixtures of bismuth oxychloride may contain the following diluents: (i) For coloring cosmetics generally, only those diluents listed under § 73.1001(a)(1) & (ii) For coloring externally applied cosmetics, only those diluents listed in § 73.1001(b) and, in addition, nitrocellulose.	x
BISPOLYETHYLENE DIMETHICONE	Bispolyethylene Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BITTER CHERRY SEED OIL PEG-8 ESTERS	Bitter Cherry Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BIXA ORELLANA (ANNATTO) SEED EXTRACT	Annatto	89957-43-7	The European Commission restricts the arsenic, lead, mercury, cadmium, and total heavy metal contents of this ingredient to maximum concentrations of 3 ppm, 10 ppm, 1 ppm, 1 ppm, and 40 ppm, respectively.	
BIXA ORELLANA (ANNATTO) SEED EXTRACT	Annatto	89957-43-7	This ingredient must meet purity criteria as set out in European Commission Directive: Solvent residues Acetone, Methanol, or Hexane not more than 50 ppm singly or in combination; Dichloromethane not more than 10 ppm; Arsenic not more than 3 ppm, Lead	
BIXA ORELLANA (ANNATTO) SEED EXTRACT	BIXA ORELLANA (ANNATTO) SEED EXTRACT	89957-43-7	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 160b)	x
BORAGE SEED OIL PEG-8 ESTERS	Borage Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BORAGE SEED OIL PEG-8 ESTERS	BORAGE SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
BORAGO OFFICINALIS (BORAGE)	BORAGO OFFICINALIS SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
BORAGO OFFICINALIS (BORAGE) SEED OIL	BORAGO OFFICINALIS SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BORATE(1-), TETRAHYDRO-, ALUMINUM	Aluminum Compounds	16962-07-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
BORIC ACID	Boric acid	13460509	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
BORIC ACID	Boric acid	13460-50-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%, and may not be used on products applied to infant or injured skin.	
BORIC ACID	BORICACID	10043353	Health Canada restricts this ingredient to a maximum concentration of 5%. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% boric acid and when it is not used as a pH adjuster: 'Do not use on broken or abraded skin'; 'Not to be used by children under three years of age'.	
Boric acid	BORICACID	10043353	Health Canada restricts this ingredient to a maximum concentration of 5%. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% boric acid and when it is not used as a pH adjuster: 'Do not use on broken or abraded skin'; 'Not to be used by children under three years of age'.	
BORIC ACID	BORICACID	11113501	Health Canada restricts this ingredient to a maximum concentration of 5%. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% boric acid and when it is not used as a pH adjuster: 'Do not use on broken or abraded skin'; 'Not to be used by children under three years of age'.	
BORIC ACID	BORIC ACID	13460-50-9	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
BORON NITRIDE	BORON NITRIDE	10043-11-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Branched alcohol ethoxylates	Branched Alcohol Ethoxylates		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
BRASSICA CAMPESTRIS (RAPESEED) OIL UNSAAPONIFIABLES	BRASSICA CAMPESTRIS (RAPESEED) OIL UNSAAPONIFIABLES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BRASSICA CAMPESTRIS (RAPESEED) SEED OIL	BRASSICA CAMPESTRIS (RAPESEED) SEED OIL	8002-13-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 17%.	
BRASSICA OLERACEA (ORNAMENTAL CABBAGE)	BRASSICA OLERACEA (ORNAMENTAL CABBAGE)		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
BRASSICA OLERACEA ITALICA (BROCCOLI) SEED OIL	BRASSICA OLERACEA ITALICA (BROCCOLI) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
BRASSICAMIDOPROPYL DIMETHYLAMINE	Brassicamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
BRASSICAMIDOPROPYL DIMETHYLAMINE	BRASSICAMIDOPROPYL DIMETHYLAMINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
BROMELAIN	Bromelain	9001007	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
BROMELAIN	Bromelain	9001007	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
BROMELAIN	Bromelain	9001007	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BROMELAIN	Bromelain	9001007	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
BROMOCHLOROPHENE	2,2'Methylenebis(6bromo4chlorophenol)	15435297	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
BRUCINE	brucine	357573	Health Canada restricts this ingredient to a maximum concentration of 0.1%.	
BUTANE	Butane	106978	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
BUTANE	Butane	106978	Health Canada bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene.	
BUTETH-3	Buteth3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BUTETH-3	Buteth3		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.33%	
BUTOXYDIGLYCOL	Butoxydiglycol	112345	The European Commission restricts this ingredient to a maximum concentration of 9% in hair dye products. Additionally, this solvent cannot be used in aerosol dispensers (sprays).	
BUTYL ACRYLATE/ETHYLHEXYL METHACRYLATE COPOLYMER	BUTYL ACRYLATE/ETHYLHEXYL METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
BUTYL ACRYLATE/ETHYLHEXYL METHACRYLATE COPOLYMER	BUTYL ACRYLATE/ETHYLHEXYL METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
BUTYL ACRYLATE/GLYCOL DIMETHACRYLATE CROSSPOLYMER	Butyl Acrylate/Glycol Dimethacrylate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 10%	

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BUTYL ACRYLATE/GLYCOL DIMETHACRYLATE CROSSPOLYMER	BUTYL ACRYLATE/GLYCOL DIMETHACRYLATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
BUTYL ACRYLATE/HYDROXYETHYL METHACRYLATE COPOLYMER	BUTYL ACRYLATE/HYDROXYETHYL METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
BUTYL ACRYLATE/HYDROXYETHYL METHACRYLATE COPOLYMER	BUTYL ACRYLATE/HYDROXYETHYL METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
BUTYL ACRYLATE/HYDROXYPROPYL DIMETHICONE ACRYLATE COPOLYMER	BUTYL ACRYLATE/HYDROXYPROPYL DIMETHICONE ACRYLATE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
BUTYL ACRYLATE/STYRENE COPOLYMER	BUTYL ACRYLATE/STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BUTYL ALCOHOL	nButyl alcohol	71363	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15% in nail products and 0.002% in all other products.	
BUTYL BENZOATE	Benzoate	136-60-7	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
BUTYL BENZOIC ACID/PHthalic ANHYDRIDE/TRIMETHYLOLETHAN E COPOLYMER	Butyl Benzoic Acid/phthalic Anhydride/trimethylolethane Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
BUTYL BENZYL PHTHALATE	Butyl benzyl phthalate	85687	The Cosmetic Ingredient Review has determined that this ingredient is safe as used at a concentration of 1% or less.	
BUTYL CINNAMALDEHYDE	αButylcinnamaldehyde	7492446	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.72% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

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BUTYL CINNAMALDEHYDE	αButylcinnamaldehyde	7492446	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077% Category 2) 0.023% Category 3) 0.46% Category 4) 0.43% Category 5A) 0.11% Category 5B) 0.11% Category 5C) 0.11% Category 5D) 0.036% Category 6) 0.25% Category 7A) 0.88% Category 7B) 0.88% Category 8) 0.036% Category 9) 0.84% Category 10A) 0.84% Category 10B) 3.0% Category 11A) 0.036% Category 11B) 0.036% Category 12) No Restriction	
BUTYL DIMETHICONE ACRYLATE/CYCLOHEXYLMETHACRYLATE/ETHYLHEXYL ACRYLATE COPOLYMER	BUTYL DIMETHICONE ACRYLATE/CYCLOHEXYLMETHACRYLATE/ETHYLHEXYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
BUTYL ESTER OF PVM/ MA COPOLYMER	BUTYL ESTER OF PVM/MA COPOLYMER	25119-68-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
BUTYL ETHYL PROPANEDIOL	BUTYL ETHYL PROPANEDIOL	115-84-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BUTYL LACTATE	BUTYL LACTATE	138227	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
BUTYL STEARATE	BUTYL STEARATE	123955	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%.	
BUTYL THIOGLYCOLATE	BUTYL THIOGLYCOLATE	10047286	The European Commission restricts this ingredient to a maximum concentration of 8% (calculated as thioglycolic acid) in hair waving products and 11% (calculated as thioglycolic acid) in hair straightening products. Required Warning: The European Commission requires the following conditions of use on the label/package of general and professional use hair waving or straightening products: 'May cause sensitization in the event of skin contact'; 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'; 'Wear suitable gloves'. Additionally, the following warning text are required: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Lastly, the following warning must also be labeled in addition to the above on professional use hair waving or straightening products: 'For professional use only'	
BUTYL THIOGLYCOLATE	BUTYL THIOGLYCOLATE	10047-28-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
BUTYLATED PVP	BUTYLATED PVP		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BUTYLDIMETHICONE METHACRYLATE/METHYL METHACRYLATE CROSSPOLYMER	BUTYLDIMETHICONE METHACRYLATE/METHYL METHACRYLATE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BUTYLENE GLYCOL COCOATE	BUTYLENE GLYCOL COCOATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
BUTYLENE GLYCOL DICAPRYLATE/DICAPRATE	BUTYLENE GLYCOL DICAPRYLATE/DICAPRATE	21107-84-5	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 10%.	

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BUTYLENE/ ETHYLENE/ PROPYLENE COPOLYMER	BUTYLENE/ ETHYLENE/ PROPYLENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BUTYLENE/ ETHYLENE/ STYRENE COPOLYMER	BUTYLENE/ ETHYLENE/ STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BUTYLENE/ETHYLENE COPOLYMER	BUTYLENE/ETHYLENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
BUTYLOCTYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
BUTYLOCTYL SALICYLATE	BUTYLOCTYL SALICYLATE		The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
BUTYL PARABEN	Propylparaben	94133	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
BUTYL PARABEN	Butylparaben	94268	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% if used alone and 0.8% in a paraben mixture.	
BUTYROSPERMUM PARKII (SHEA BUTTER) OIL	BUTYROSPERMUM PARKII (SHEA) OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 15%	
BUTYROSPERMUM PARKII (SHEA BUTTER) UNSAPONIFIABLES	BUTYROSPERMUM PARKII (SHEA) BUTTER UNSAPONIFIABLES		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	AMODIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C31 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C32 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C33 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C34 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C35 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C36 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C37 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C38 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C39 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C40 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C41 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C42 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C43 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C44 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	

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C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C45 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	CETYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	C 26-28 ALKYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C,C'-AZODI(FORMAMIDE)	Azodicarbamide	123773	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
C.I. PIGMENT BLACK 30	Nickel Compounds	71631-15-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
C.I. PIGMENT BROWN 34	Nickel Compounds	68187-10-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
C.I. PIGMENT YELLOW 36	Levafix Brilliant Yellow E36	37300235	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
C.I. REACTIVE YELLOW 39	Lanasol Yellow 4G	70247700	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
C10 Alcohol Ethoxylate	C10 Alcohol Ethoxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C10 Alcohol Ethoxylated Propoxylated	C10 Alcohol Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C10-12 ALKANE/CYCLOALKANE	C1012 Alkane/Cycloalkane	64742489	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C10-12 Branched Alcohols Ethoxylated 5-7EO	C1012 Branched Alcohols Ethoxylated 57eo		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C10-13 ALKYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
C10-15 ALKYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
C10-16 Alcohols Ethoxylated Propoxylated	C1016 Alcohols Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C10-16 Pareth-1	C1016 PARETH1		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C10-18 TRIGLYCERIDES	C1018 triglycerides	85665-33-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 48%	

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C10-40 ISOALKYL ACID	C10-40 ISOALKYL ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
C10-40 ISOALKYL ACID OCTYLDODECANOL ESTERS	C10-40 ISOALKYL ACID OCTYLDODECANOL ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
C10-40 ISOALKYL ACID TRIGLYCERIDE	C10-40 ISOALKYL ACID TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C11-15 PARETH-7 CARBOXYLIC ACID	C1115 Pareth7 Carboxylic Acid	68954-90-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-13 ALKYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
C12-13 PARETH-7	C1213 PARETH7	66455-14-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-14 Alcohols Ethoxylated Propoxylated	C1214 Alcohols Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-14 Pareth-11	C1214 Pareth11		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-14 Pareth-11	C12-14 Pareth-11		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
C12-14 PARETH-3	C1214 PARETH3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-14 PARETH-7	C1214 PARETH7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-15 ALCOHOL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
C12-15 Alcohols Ethoxylated Propoxylated	C1215 Alcohols Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-15 ALKYL BENZOATE	C1215 ALKYL BENZOATE	68411278	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 59%.	

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C12-15 ALKYL SALICYLATE	C12 ALKYL SALICYLATE		The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
C12-15 ALKYL SALICYLATE	C12-15 ALKYL SALICYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
C12-15 PARETH-2	C1215 PARETH2	68131-39-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-15 PARETH-3	C1215 PARETH3	68131-39-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-15 PARETH-3 BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
C12-15 PARETH-7	C1215 PARETH7	68131-39-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-15 PARETH-9	C1215 PARETH9	68131-39-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-16 Alcohols Ethoxylated 7EO	C1216 Alcohols Ethoxylated 7eo		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-16 ALKYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
C12-16 ALKYL PEG-2 HYDROXYPROPYL HYDROXYETHYL ETHYLCELLULOSE	C1216 Alkyl Peg2 Hydroxypropyl Hydroxyethyl Ethylcellulose		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-18 ACID TRIGLYCERIDE	C1218 Acid Triglyceride		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.33%	
C12-20 ACID PEG-20 ESTER	C1220 Acid Peg20 Ester		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C12-20 ACID PEG-8 ESTER	C1220 Acid Peg8 Ester		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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C12-20 ISOPARAFFIN	C1220 ISOPARAFFIN	64742467	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
C13-15 ALKANE	C1315 ALKANE; C1519 ALKANE; C1821 ALKANE	64742467	CosIng Annex II/875: Distillates (petroleum), hydrotreated middle, except if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
C14-15 DIALKYL CARBONATE	C14-15 DIALKYL CARBONATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
C14-15 PARETH-7	C1415 PARETH7	68951-67-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C14-28 ALKYL ACID	C14-28 ALKYL ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
C14-28 ISOALKYL ACID	C14-28 ISOALKYL ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
C15-19 ALKANE	C1315 ALKANE; C1519 ALKANE; C1821 ALKANE	64742467	CosIng Annex II/875: Distillates (petroleum), hydrotreated middle, except if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
C16-17 ALKYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
C16-17 ALKYL BENZOATE	C16-17 ALKYL BENZOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C16-22 ACID AMIDE MEA	C1622 Acid Amide MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
C16-22 ACID AMIDE MEA	C16-22 ACID AMIDE MEA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
C18-21 ALKANE	C1315 ALKANE; C1519 ALKANE; C1821 ALKANE	64742467	CosIng Annex II/875: Distillates (petroleum), hydrotreated middle, except if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
C18-22 HYDROXYALKYL HYDROXYPROPYL GUAR	C18-22 HYDROXYALKYL HYDROXYPROPYL GUAR		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C18-36 ACID TRIGLYCERIDE	C1836 acid triglyceride	91052-08-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 26%	
C20-22 ALKYL PHOSPHATE	C20-22 ALKYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
C20-24 ALKYL DIMETHICONE	C20-24 ALKYL DIMETHICONE	200074-76-6	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

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C24-28 ALKYL DIMETHICONE	C24-28 ALKYL DIMETHICONE	192230-29-8	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C24-28 ALKYL DIMETHICONE	C24-28 ALKYL DIMETHICONE	192230-29-8	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C24-28 ALKYL METHICONE	C24-28 ALKYL METHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C24-28 ALKYL METHICONE	C24-28 ALKYL METHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C24-28 ALKYL DIMETHYLSILOXY TRIMETHYLSILOXYSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
C26-28 ALKYL DIMETHICONE	C26-28 ALKYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C30-45 ALKYL CETEARYL DIMETHICONE CROSSPOLYMER	C30-45 ALKYL CETEARYL DIMETHICONE CROSSPOLYMER	443892-05-5	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C30-45 ALKYL CETEARYL DIMETHICONE CROSSPOLYMER	C30-45 ALKYL CETEARYL DIMETHICONE CROSSPOLYMER	443892-05-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C30-45 ALKYL DIMETHICONE	C30 ALKYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
C30-45 ALKYL DIMETHICONE	C30-45 ALKYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C30-45 ALKYL DIMETHICONE	C30-45 ALKYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C30-45 ALKYL DIMETHICONE/POLYCYCLOHEXENE OXIDE CROSSPOLYMER	C30-45 ALKYL DIMETHICONE/POLYCYCLOHEXENE OXIDE CROSSPOLYMER	330809-27-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
C30-45 ALKYL DIMETHICONE/POLYCYCLOHEXENE OXIDE CROSSPOLYMER	C30-45 ALKYL DIMETHICONE/POLYCYCLOHEXENE OXIDE CROSSPOLYMER	330809-27-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C30-45 ALKYL DIMETHICONE/POLYCYCLOHEXENE OXIDE CROSSPOLYMER	C30-45 ALKYL DIMETHICONE/POLYCYCLOHEXENE OXIDE CROSSPOLYMER	330809-27-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C30-45 ALKYL METHICONE	C30-45 ALKYL METHICONE	246864-88-0	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C30-45 ALKYL METHICONE	C30-45 ALKYL METHICONE	246864-88-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C30-45 ALKYL DIMETHYLSILYL PROPYLSILSEQUIOXANE	C3045 Alkyldimethylsilyl Polypropylsilsesquioxane		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 5%	
C32-36 ISOALKYL ACID	C32-36 ISOALKYL ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
C4-24 ALKYL DIMETHICONE/DIVINYLDIMETHICONE CROSSPOLYMER	C4-24 ALKYL DIMETHICONE/DIVINYLDIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
C4-24 ALKYL DIMETHICONE/DIVINYLDIMETHICONE CROSSPOLYMER	C4-24 ALKYL DIMETHICONE/DIVINYLDIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C4-6 OLEFIN/STYRENE COPOLYMER	C4-6 OLEFIN/STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C5-6 OLEFIN/STYRENE COPOLYMER	C5-6 OLEFIN/STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
C6-12 Alcohols Ethoxylated Propoxylated	C612 Alcohols Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C6-20 Alcohols Ethoxylated Propoxylated	C620 Alcohols Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C8-10 Alcohols Ethoxylated Propoxylated	C810 Alcohols Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C8-10 ALKANE/CYCLOALKANE/AROMATIC HYDROCARBONS	C810 ALKANE/CYCLOALKANE/AROMATIC HYDROCARBONS	64742821	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C8-10 ALKYL ETHYL PHOSPHATE	C8-10 ALKYL ETHYL PHOSPHATE	68412-60-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
C8-12 ACID TRIGLYCERIDE	C8-12 ACID TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
C8-22 ALKYL ACRYLATES/METHACRYLIC ACID CROSSPOLYMER	C8-22 ALKYL ACRYLATES/METHACRYLIC ACID CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
C8-22 ALKYL ACRYLATES/METHACRYLIC ACID CROSSPOLYMER	C8-22 ALKYL ACRYLATES/METHACRYLIC ACID CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
C8-9 ALKANE/CYCLOALKANE	C89 ALKANE/CYCLOALKANE	64742490	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C8-9 ALKANE/CYCLOALKANE	C910 ALKANE/CYCLOALKANE	64742490	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C8-9 ALKANE/CYCLOALKANE	C911 ALKANE/CYCLOALKANE C911 ALKANE/CYCLOALKANE	64742490	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C9-10 ALKANE/CYCLOALKANE	C910 ALKANE/CYCLOALKANE	64742490	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C9-10 AROMATIC HYDROCARBONS	C910 AROMATIC HYDROCARBONS	64742956	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C9-11 Alcohols Ethoxylated 4-6EO	C911 Alcohols Ethoxylated 46eo		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C9-11 ALKANE/CYCLOALKANE C9-11 ALKANE/CYCLOALKANE	C911 ALKANE/CYCLOALKANE C911 ALKANE/CYCLOALKANE	64742490	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
C9-11 PARETH-3	C911 PARETH3	68439-46-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C9-11 PARETH-8	C911 PARETH8	68439-46-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
C9-15 ALKYL PHOSPHATE	C9-15 ALKYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CADE OIL	Cade oil Juniperus oxycedrus L. (purified)	8013103	The International Fragrance Association restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	
CADMIUMHEXAFLUOROSILICATE(2-)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CAESALPINIA SPINOSA GUM	CAESALPINIA SPINOSA GUM	39300-88-4	(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CAESALPINIA SPINOSA HYDROXYPROPYLTRIMONIUM CHLORIDE	CAESALPINIA SPINOSA HYDROXYPROPYLTRIMONIUM CHLORIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CAFFEINE	CAFFEINE	58-08-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CAFFEINE BENZOATE	Benzoate	5743-17-9	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
CALCIUM ALGINATE	CALCIUM ALGINATE	9005-35-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALCIUM ALUMINUM BOROSILICATE	Aluminum Compounds	65997-17-3	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CALCIUM ALUMINUM BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM ALUMINUM HYDROXIDE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CALCIUM ASPARTATE	CALCIUM ASPARTATE	21059-46-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALCIUM BEHENATE	CALCIUM BEHENATE	3578-72-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
CALCIUM BENZOATE	CALCIUM BENZOATE	2090-05-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.004%.	
CALCIUM BENZOATE	Benzoate	2090-05-3	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
CALCIUM BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM CARBONATE	Calcium carbonate	1317-65-3	The European Commission restricts the arsenic, lead, cadmium, fluoride, antimony, copper, zinc, and barium contents of this ingredient to maximum concentrations of 3 ppm, 10 ppm, 1 ppm, 50 ppm, 100 ppm, 100 ppm, 100 ppm, and 100 ppm, respectively.	
CALCIUM CARBONATE	CALCIUM CARBONATE	1317-65-3	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 170)	x
CALCIUM CARRAGEENAN	CALCIUM CARRAGEENAN	9049-05-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALCIUM CASEINATE	CALCIUM CASEINATE	9005-43-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CALCIUM FLUORIDE	calcium fluoride	7789755	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains calcium fluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
CALCIUM FLUORIDE	CALCIUMFLUORIDE	7789755	Health Canada restricts the use of this ingredient to nonoral products.	
CALCIUM FLUORIDE	Fluoride containing substances	7789-75-5	Health Canada prohibits fluoride containing substances in oral products. EXCEPTION: sodium fluoride, sodium monofluorophosphate, and stannous fluoride may be used in medicinal oral products, as defined by Health Canada, Oral Health Products Monograph.	
CALCIUM FRUCTOBORATE	CALCIUM FRUCTOBORATE		The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
CALCIUM GLUCONATE	CALCIUM GLUCONATE	299-28-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALCIUM HYDROXIDE	Calcium hydroxide	1305620	The European Commission restricts this ingredient to a maximum concentration of 7% (as calcium hydroxide) in twocomponent (calcium hydroxide and guanidine salt) hair straighteners. Additionally, as a pH adjuster, the pH must be less than 12.7 in depilatories and less than 11 in all other uses. Required Warning: The European Commission requires the following warning text on the product label/package of hair straighteners containing two components (calcium hydroxide and a guanidine salt): 'Contains alkali'; 'Avoid contact with eyes'; 'Can cause blindness'; 'Keep out of reach of children'. As a pH adjuster for depilatories, the following are required on the label: 'Contains alkali'; 'Keep out of reach of children'; 'Avoid contact with eyes'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CALCIUM HYDROXIDE	Calcium hydroxide	1305-62-0	(*) The Cosmetic Ingredient Review has determined that users should minimize skin contact for hair straighteners and depilatories that contain this ingredient.	
CALCIUM HYDROXIDE	CALCIUM HYDROXIDE	1305-62-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CALCIUM LACTATE	CALCIUM LACTATE	814802	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
CALCIUM LAURATE	CALCIUM LAURATE	4696-56-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
CALCIUM LAUROYL TAURATE	CALCIUM LAUROYL TAURATE	138705-25-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CALCIUM MONOFLUOROPHOSPHATE	CALCIUM MONOFLUOROPHOSPHATE	7789744	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains calcium monofluorophosphate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
CALCIUM OXIDE SILICATE (CA3O(SiO4))	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM PANTOTHENATE	CALCIUM PANTOTHENATE	137-08-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.5%	
CALCIUM PARABEN	CALCIUM PARABEN	69959-44-0	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
CALCIUM PCA	CALCIUM PCA	31377-05-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CALCIUM PEROXIDE	CALCIUM PEROXIDE	1305799	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'; 'Concentration of H2O2 present or	
CALCIUM PEROXIDE	CALCIUMPEROXIDE	1305799	Health Canada requires manufacturers of oral products containing peroxides or peroxidegenerating compounds to submit the following information: data on the pH of the cosmetic product, when it is applied to the tooth or teeth, i.e. that the pH is greater than or equal to 4.0; product labelling demonstrating that all cautionary statement requirements have been met. If an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit safety evidence that the product does not cause the saliva or soft tissue of the oral cavity to exceed 3% hydrogen peroxide, and is safe when used as directed. Required Warning: Health Canada requires the following warning text on the package/label of oral products: 'If irritation (such as redness, swelling, soreness) of the gums or the mouth occurs, discontinue use and consult a dentist'; 'Products containing peroxides are not recommended for use by children under 12 years of age'; 'Use for periods of longer than 14 days is to be only under the supervision of a dentist'; 'Avoid swallowing the cosmetic or part thereof'; 'Avoid contact of the product with the eye'; 'Avoid direct contact of the active surface of the tooth whitening product with the gums and/or salivary flow.'	
CALCIUM PEROXIDE	CALCIUM PEROXIDE	1305-79-9	According to Section 13 of Canada's Cosmetic Regulations the pH of oral products containing this ingredient must be greater than or equal to 4.0. Additionally, if an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit a clinical study to demonstrate the salivary peroxide levels do not exceed 3% during the use of the product as per the directions of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CALCIUM POTASSIUM CARBOMER	CALCIUM POTASSIUM CARBOMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
CALCIUM POTASSIUM CARBOMER	CALCIUM POTASSIUM CARBOMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CALCIUM SALICYLATE	CALCIUM SALICYLATE	824-35-1	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
CALCIUM SALICYLATE	Salicylic acid and its salts	824351	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.5%; Not to be used in products for children under 3 years of age, except for shampoos. Required Warning: Required warning: Not to be used for children under 3 years of age***. ***Solely for products which might be used for children under 3 years of age and which remain in prolonged contact with the skin.	
CALCIUM SALICYLATE	CALCIUM SALICYLATE	824-35-1	Per COSING, the maximum concentration in RTU preparation is 0.5%. This ingredient is not to be used in products for children under 3 years of age (except for shampoos), in oral products, or in applications that may lead to exposure of the end-user's lungs by inhalation.	x
CALCIUM SILICATE	Calcium silicate	1344952	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
CALCIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM SILICOFLUORIDE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM SODIUM BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM SODIUM BOROSILICATE	CALCIUM SODIUM BOROSILICATE	65997-17-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALCIUM SODIUM PHOSPHOSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM STARCH ISODODECENYLSUCCINATE	CALCIUM STARCH ISODODECENYLSUCCINATE	194810-88-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CALCIUM STARCH OCTENYLSUCCINATE	CALCIUM STARCH OCTENYLSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALCIUM STEARATE	CALCIUM STEARATE	1592230	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 23%.	
CALCIUM STEAROYL LACTYLATE	CALCIUM STEAROYL LACTYLATE	5793-94-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%	
CALCIUM SULFIDE	calcium sulfide	20548543	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
CALCIUM SULFIDE	calcium sulfide	1344816	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
CALCIUM SULFIDE	calcium sulfide	1344816	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
CALCIUM SULFIDE	CALCIUMSULFIDE	20548543	Health Canada restricts this ingredient to a maximum concentration of 6% (sulfur) in depilatory products.	
CALCIUM SULFIDE	CALCIUMSULFIDE	20548543	Health Canada restricts this ingredient to a maximum concentration of 6% (sulfur) in depilatory products.	
CALCIUM THIOGLYCOLATE	CALCIUM THIOGLYCOLATE	814711	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professional use only.'	
CALCIUM THIOGLYCOLATE	CALCIUM THIOGLYCOLATE	814-71-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
CALCIUM TITANIUM BOROSILICATE	Calcium titanium borosilicate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	

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CALCIUM TITANIUM BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CALCIUM UNDECYLENATE	CALCIUM UNDECYLENATE	1322-14-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
CALCIUM/ SODIUM PVM/ MA COPOLYMER	CALCIUM/ SODIUM PVM/ MA COPOLYMER	62386-95-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALEDULA OFFICINALIS EXTRACT	CALENDULA OFFICINALIS EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
CALENDULA OFFICINALIS (POT MARIGOLD)	CALENDULA OFFICINALIS EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
CALENDULA OFFICINALIS (POT MARIGOLD) FLOWER EXTRACT	CALENDULA OFFICINALIS EXTRACT	84776-23-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
CALENDULA OFFICINALIS (POT MARIGOLD) FLOWER EXTRACT	CALENDULA OFFICINALIS (POT MARIGOLD) FLOWER EXTRACT	84776-23-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALENDULA OFFICINALIS (POT MARIGOLD) FLOWER OIL	CALENDULA OFFICINALIS OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
CALENDULA OFFICINALIS (POT MARIGOLD) FLOWER OIL	CALENDULA OFFICINALIS (POT MARIGOLD) FLOWER OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CALENDULA OFFICINALIS (POT MARIGOLD) FLOWER WATER	CALENDULA OFFICINALIS EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
CALENDULA OFFICINALIS (POT MARIGOLD) ROOT EXTRACT	CALENDULA OFFICINALIS EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
CAMBRIAN BLUE CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
CAMELINA SATIVA (GOLD OF PLEASURE) SEED OIL	Camelina Sativa Seed Oil		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%	
CAMELINA SATIVA (GOLD OF PLEASURE) SEED OIL	CAMELINA SATIVA (GOLD OF PLEASURE) SEED OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CAMELLIA KISSI SEED OIL	CAMELLIA KISSI SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
CAMELLIA OLEIFERA SEED OIL	CAMELLIA OLEIFERA SEED OIL	225233-97-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
CAMELLIA SINENSIS (GREEN TEA) CATECHINS	CAMELLIA SINENSIS (GREEN TEA) CATECHINS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CAMELLIA SINENSIS (GREEN TEA) EXTRACT	Teal leaf absolute	84650602	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.02% in deodorants/antiperspirants, 0.07% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.3% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 2.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CAMELLIA SINENSIS (GREEN TEA) EXTRACT	Tea leaf absolute	84650602	Based on the IFRA 49th Amendment, this ingredient is limited to the concentrations outlined below according to product use and category (as outlined in the 49th amendment): Category 1 - 0.037%; Category 2 - 0.011%; Category 3 - 0.22%; Category 4 - 0.21%; Category 5a - 0.052%; Category 5b - 0.052%; Category 5c - 0.052%; Category 5d - 0.052%; Category 6 - 0.12%; Category 7a - 0.42%; Category 7b - 0.42%; Category 8 - 0.022%; Category 9 - 0.40%; Category 10a - 1.4%; Category 10b - 1.4%; Category 11a - 0.80%; Category 11a - 0.80%. There is no restriction for Category 12.	
CAMELLIA SINENSIS (GREEN TEA) LEAF	CAMELLIA SINENSIS (GREEN TEA) LEAF		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
CAMELLIA SINENSIS (GREEN TEA) LEAF EXTRACT	Teal leaf absolute	84650602	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.02% in deodorants/antiperspirants, 0.07% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.3% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 2.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CAMELLIA SINENSIS (GREEN TEA) LEAF EXTRACT	Tea leaf absolute	84650602	Based on the IFRA 49th Amendment, this ingredient is limited to the concentrations outlined below according to product use and category (as outlined in the 49th amendment): Category 1 - 0.037%; Category 2 - 0.011%; Category 3 - 0.22%; Category 4 - 0.21%; Category 5a - 0.052%; Category 5b - 0.052%; Category 5c - 0.052%; Category 5d - 0.052%; Category 6 - 0.12%; Category 7a - 0.42%; Category 7b - 0.42%; Category 8 - 0.022%; Category 9 - 0.40%; Category 10a - 1.4%; Category 10b - 1.4%; Category 11a - 0.80%; Category 11a - 0.80%. There is no restriction for Category 12.	
CAMELLIA SINENSIS (GREEN TEA) LEAF EXTRACT	CAMELLIA SINENSIS (GREEN TEA) LEAF EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CAMELLIA SINENSIS (GREEN TEA) LEAF OIL	CAMELLIA SINENSIS (GREEN TEA) LEAF OIL	68916-73-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
CAMELLIA SINENSIS (GREEN TEA) LEAF POWDER	CAMELLIA SINENSIS (GREEN TEA) LEAF POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
CAMELLIA SINENSIS (GREEN TEA) LEAF WATER	CAMELLIA SINENSIS (GREEN TEA) LEAF WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
CAMELLIA SINENSIS (GREEN TEA) ROOT EXTRACT	Teal leaf absolute	84650602	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.02% in deodorants/antiperspirants, 0.07% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.3% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 2.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CAMELLIA SINENSIS (GREEN TEA) SEED EXTRACT	Teal leaf absolute	84650602	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.02% in deodorants/antiperspirants, 0.07% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.3% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 2.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CAMELLIA SINENSIS (GREEN TEA) SEED OIL	CAMELLIA SINENSIS SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CAMELLIA SINENSIS (TEA-OIL/CAMELLIA) LEAF EXTRACT	Teal leaf absolute	84650602	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.02% in deodorants/antiperspirants, 0.07% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.3% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 2.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CAMELLIA SINENSIS CALLUS CULTURE EXTRACT	Teal leaf absolute	84650602	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.02% in deodorants/antiperspirants, 0.07% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.3% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 2.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CAMPHOR	CAMPHOR	76222	Health Canada restricts this ingredient to a maximum concentration of 3%.	
CANADIAN COLLOIDAL CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
CANANGA ODORATA (YLANG YLANG)	CANANGA ODORATA (YLANG YLANG)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANANGA ODORATA (YLANG YLANG)	CANANGA ODORATA (YLANG YLANG)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CANANGA ODORATA (YLANG YLANG) EXTRACT	CANANGA ODORATA (YLANG YLANG) EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANANGA ODORATA (YLANG YLANG) EXTRACT	CANANGA ODORATA (YLANG YLANG) EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANANGA ODORATA (YLANG YLANG) OIL	Ylang Ylang Extracts	8006813	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.05% in lip products, 0.06% in deodorants/antiperspirants, 0.27% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.8% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.3% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.8% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CANANGA ODORATA (YLANG YLANG) OIL	Ylang Ylang Extracts	68606837	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.05% in lip products, 0.06% in deodorants/antiperspirants, 0.27% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.8% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.3% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.8% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CANANGA ODORATA (YLANG YLANG) OIL	CANANGA ODORATA (YLANG YLANG) OIL	93686307	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CANANGA ODORATA (YLANG YLANG) OIL	CANANGA ODORATA (YLANG YLANG) OIL	93686307	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANANGA ODORATA (YLANG YLANG) OIL	Ylang Ylang Extracts	8006813	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.13% Category 2) 0.039% Category 3) 0.78% Category 4) 0.73% Category 5A) 0.18% Category 5B) 0.18% Category 5C) 0.18% Category 5D) 0.18% Category 6) 0.43% Category 7A) 1.5% Category 7B) 1.5% Category 8) 0.077% Category 9) 1.4% Category 10A) 5.1% Category 10B) 5.1% Category 11A) 2.8% Category 11B) 2.8% Category 12) No Restriction	
CANANGA ODORATA FLOWER EXTRACT(YLANG)	Ylang Ylang Extracts	83863303	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.05% in lip products, 0.06% in deodorants/antiperspirants, 0.27% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.8% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.3% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.8% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CANANGA ODORATA FLOWER EXTRACT(YLANG)	CANANGA ODORATA FLOWER EXTRACT(YLANG)	83863303	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANANGA ODORATA FLOWER EXTRACT(YLANG)	CANANGA ODORATA FLOWER EXTRACT(YLANG)	83863303	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANANGA ODORATA FLOWER EXTRACT(YLANG)	Ylang Ylang Extracts	83863303	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.13% Category 2) 0.039% Category 3) 0.78% Category 4) 0.73% Category 5A) 0.18% Category 5B) 0.18% Category 5C) 0.18% Category 5D) 0.18% Category 6) 0.43% Category 7A) 1.5% Category 7B) 1.5% Category 8) 0.077% Category 9) 1.4% Category 10A) 5.1% Category 10B) 5.1% Category 11A) 2.8% Category 11B) 2.8% Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CANANGA ODORATA FLOWER WATER	Ylang Ylang Extracts	83863303	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.05% in lip products, 0.06% in deodorants/antiperspirants, 0.27% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.8% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.3% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.8% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CANANGA ODORATA FLOWER WATER	CANANGA ODORATA FLOWER EXTRACT(YLANG)	83863303	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANANGA ODORATA FLOWER WATER	CANANGA ODORATA FLOWER EXTRACT(YLANG)	83863303	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANANGA ODORATA FLOWER WATER	Ylang Ylang Extracts	83863303	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.13% Category 2) 0.039% Category 3) 0.78% Category 4) 0.73% Category 5A) 0.18% Category 5B) 0.18% Category 5C) 0.18% Category 5D) 0.18% Category 6) 0.43% Category 7A) 1.5% Category 7B) 1.5% Category 8) 0.077% Category 9) 1.4% Category 10A) 5.1% Category 10B) 5.1% Category 11A) 2.8% Category 11B) 2.8% Category 12) No Restriction	
CANANGA ODORATA MACROPHYLLA FLOWER EXTRACT(CANANGA)	CANANGA ODORATA (YLANG YLANG) OIL	93686307	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANANGA ODORATA MACROPHYLLA FLOWER EXTRACT(CANANGA)	CANANGA ODORATA MACROPHYLLA FLOWER EXTRACT(CANANGA)	93686307	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CANANGA ODORATA MACROPHYLLA FLOWER EXTRACT(CANANGA)	CANANGA ODORATA (YLANG YLANG) OIL	93686307	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANANGA ODORATA MACROPHYLLA FLOWER EXTRACT(CANANGA)	CANANGA ODORATA MACROPHYLLA FLOWER EXTRACT(CANANGA)	93686307	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANARIUM LUZONICUM (ELEMI) GUM	CANARIUM LUZONICUM (ELEMI) GUM		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANARIUM LUZONICUM (ELEMI) GUM	CANARIUM LUZONICUM (ELEMI) GUM		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANARIUM LUZONICUM (ELEMI) GUM NONVOLATILES	CANARIUM LUZONICUM (ELEMI) GUM NONVOLATILES	8023890	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANARIUM LUZONICUM (ELEMI) GUM NONVOLATILES	CANARIUM LUZONICUM (ELEMI) GUM NONVOLATILES	8023890	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CANARIUM LUZONICUM (ELEMI) OIL	CANARIUM LUZONICUM (ELEMI) OIL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
CANARIUM LUZONICUM (ELEMI) OIL	CANARIUM LUZONICUM (ELEMI) OIL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CANDELILLA/JOJOBA/RICE BRAN POLYGLYCERYL 3 ESTERS	CANDELILLA/JOJOBA/RICE BRAN POLYGLYCERYL 3 ESTERS		The Cosmetic Ingredient Review has determined this ingredient to be safe as used when formulated to be nonirritating up to a concentration of 2%.	
CANNABIDIOL	CANNABIDIOL	13956291	FDA restriction on THC concentrations of industrial hemp and derivatives cannot exceed 0.3%.	x
CANNABIDIOL	CANNABIDIOL		This ingredient is prohibited from use in European cosmetic products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used in cosmetics when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2%.	x
CANNABINOL	cannabinol	521-35-7	This ingredient is prohibited from use in products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2% (based on EU regulations).	x
CANNABINOL	cannabinol	521-35-7	EWG restricts the THC (delta9tetrahydrocannabinol) content of this ingredient to a maximum concentration of 10 microgram/g, based on Canadian regulations.	x
CANNABIS	CANNABIDIOL	13956291	FDA restriction on THC concentrations of industrial hemp and derivatives cannot exceed 0.3%.	x
CANNABIS	CANNABIDIOL		This ingredient is prohibited from use in European cosmetic products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used in cosmetics when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2%.	x
CANNABIS SATIVA (HEMP)	CANNABIDIOL	13956291	FDA restriction on THC concentrations of industrial hemp and derivatives cannot exceed 0.3%.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CANNABIS SATIVA (HEMP)	CANNABIDIOL		This ingredient is prohibited from use in European cosmetic products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used in cosmetics when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2%.	x
CANNABIS SATIVA (HEMP) ACID	CANNABIDIOL	13956291	FDA restriction on THC concentrations of industrial hemp and derivatives cannot exceed 0.3%.	x
CANNABIS SATIVA (HEMP) ACID	CANNABISSATIVASEEDOIL	68956683	Health Canada restricts the THC (delta9tetrahydrocannabinol) content of this ingredient to a maximum concentration of 10 microgram/g.	
CANNABIS SATIVA (HEMP) ACID	CANNABIDIOL		This ingredient is prohibited from use in European cosmetic products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used in cosmetics when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2%.	x
CANNABIS SATIVA (HEMP) EXTRACT	CANNABIDIOL	13956291	FDA restriction on THC concentrations of industrial hemp and derivatives cannot exceed 0.3%.	x
CANNABIS SATIVA (HEMP) EXTRACT	CANNABISSATIVASEEDOIL	68956683	Health Canada restricts the THC (delta9tetrahydrocannabinol) content of this ingredient to a maximum concentration of 10 microgram/g.	
CANNABIS SATIVA (HEMP) EXTRACT	CANNABIDIOL		This ingredient is prohibited from use in European cosmetic products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used in cosmetics when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2%.	x
CANNABIS SATIVA (HEMP) SEED OIL	CANNABISSATIVASEEDOIL	8016248	Health Canada restricts the THC (delta9tetrahydrocannabinol) content of this ingredient to a maximum concentration of 10 microgram/g.	x
CANNABIS SATIVA FLOWER/LEAF/STEM EXTRACT	CANNABIDIOL	13956291	FDA restriction on THC concentrations of industrial hemp and derivatives cannot exceed 0.3%.	x
CANNABIS SATIVA FLOWER/LEAF/STEM EXTRACT	CANNABIDIOL		This ingredient is prohibited from use in European cosmetic products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used in cosmetics when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2%.	x
CANNABIS SATIVA SEED OIL PEG-8 ESTERS	CANNABIS SATIVA SEED OIL PEG8 ESTERS		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CANNABIS SATIVA SEED OIL PEG-8 ESTERS	CANNABISSATIVASEEDOIL	68956683	Health Canada restricts the THC (delta9tetrahydrocannabinol) content of this ingredient to a maximum concentration of 10 microgram/g.	
CANNABIS SATIVA SEED OIL PEG-8 ESTERS	CANNABIS SATIVA SEED OIL PEG8 ESTERS			

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CANOLA OIL UNSAPONIFIABLES	CANOLA OIL UNSAPONIFIABLES		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.001%	
CANOLAMIDOPROPYL BETAINE	CANOLAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
CAPE ALOE	ALOE FEROX LEAF JUICE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
CAPE ALOE	ALOE INGREDIENTS		California Prop65 lists nondecolorized aloe as known to cause cancer. Companies must certify that the aloe has been decolorized.	
CAPE ALOE EKISU	ALOE FEROX LEAF JUICE EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
CAPRAMIDE DEA	CAPRAMIDE DEA	136265	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
CAPRAMIDE DEA	CAPRAMIDE DEA	136-26-5	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
CAPRIC ACID	CAPRIC ACID	334-48-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
CAPROIC ACID	CAPROIC ACID	142-62-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
CAPROYL SPHINGOSINE	CAPROYL SPHINGOSINE	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CAPRYL/ CAPRAMIDOPROPYL BETAINE	capryl/capramidopropyl betaine		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
CAPRYLIC ACID	CAPRYLIC ACID	124-07-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
CAPRYLIC/ CAPRIC/ LAURIC TRIGLYCERIDE	CAPRYLIC/ CAPRIC/ LAURIC TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CAPRYLIC/ CAPRIC/ STEARIC TRIGLYCERIDE	Caprylic/Capric/Stearic Triglyceride		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 18%	
CAPRYLIC/CAPRIC TRIGLYCERIDE PEG-4 ESTERS	Caprylic/capric Triglyceride Peg4 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CAPRYLIC/CAPRIC/COCO GLYCERIDES	CAPRYLIC/CAPRIC/COCO GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CAPRYLIC/CAPRIC/MYRISTIC/STEARIC TRIGLYCERIDE	Caprylic/Capric/Myristic/Stearic Triglyceride	208126-53-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 15%	
CAPRYLOYL GLYCINE	Capryloyl Glycine	14246-53-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
CAPRYLOYL SALICYLIC ACID	CAPRYLOYL SALICYLIC ACID		The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
CAPRYLYL DIMETHICONE ETHOXY GLUCOSIDE	CAPRYLYL DIMETHICONE ETHOXY GLUCOSIDE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CAPRYLYL GLYCOL	CAPRYLYL GLYCOL	1117-86-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
CAPRYLYL METHICONE	CAPRYLYL METHICONE	17955-88-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CAPRYLYL TRIMETHICONE	CAPRYLYL TRIMETHICONE	187593-69-7	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CAPSANTHIN/CAPSORUBIN	CAPSANTHIN/CAPSORUBIN	465-42-9	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E160c)	x
CAPSIUM ANNUUM	CAPSIUM ANNUUM		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
CAPSIUM FRUTESCENS FRUIT	CAPSIUM FRUTESCENS FRUIT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CAPTAFOL	Captafol	2425061	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CARAMEL	CARAMEL		The European Commission restricts the arsenic, lead, mercury, cadmium, and total heavy metal contents of this ingredient to maximum concentrations of 1 ppm, 2 ppm, 1 ppm, 1 ppm, and 25 ppm, respectively.	
CARAMEL	CARAMEL		Per the U.S. FDA., caramel shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 0.1 part per million.	x
CARAMEL COLOR	CARAMEL COLOR	8028-89-5	Per the U.S. FDA., caramel shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 0.1 part per million.	x
CARAMEL COLOR	CARAMEL COLOR	8028-89-5	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E150a-d)	x
Caramel I	Caramel I	8028-89-5	Per the U.S. FDA., caramel shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 0.1 part per million.	x
Caramel III	Caramel III	8028-89-5	Per the U.S. FDA., caramel shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 0.1 part per million.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Caramel IV	Caramel IV	8028-89-5	Per the U.S. FDA., caramel shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 0.1 part per million.	x
CARBAMIC ACID, ETHYLENEBIS(DITHIO-, NICKEL(II) SALT	Nickel Compounds	12275-13-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CARBOMER	CARBOMER941	9062-04-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
CARBOMER	CARBOMER	9062-04-8	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
CARBOMER 940	CARBOMER940	76050-42-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
Carbon black (Uncertified D&C Black No. 2)	Color additives subject to batch certification	1333-86-4	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Carbon black (Uncertified D&C Black No. 2)	Carbon black	1333864	This substance is not allowed in powder, spray or aerosol products because the International Agency for Research on Cancer lists this chemical as a Possible Human Carcinogen (Group 2B) and California Prop65 lists this chemical as known to cause cancer when in a respirable form.	
Carbon black (Uncertified D&C Black No. 2)	Carbon black (Uncertified D&C Black No. 2)	1333-86-4	Per COSING, this ingredient shall conform to purity >97 %, with the following impurity profile: Ash content ≤ 0.15 %, total sulphur ≤ 0.65 %, total PAH : 500 ppb and benzo(a)pyrene ≤ 5 ppb, dibenz(a,h)anthracene ≤ 5 ppb, total As ≤ 3 ppm, total Pb ≤ 10 ppm, and total Hg ≤ 1 ppm.	x
CARBONIC ACID, CHROMIUM SALT	Chromium Compounds	29689-14-3	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CARBOXYMETHYL CELLULOSE ACETATE BUTYRATE	CARBOXYMETHYL CELLULOSE ACETATE BUTYRATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CARBOXYMETHYL DEXTRAN	CARBOXYMETHYL DEXTRAN	9044-05-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CARBOXYMETHYL HYDROXYETHYLCELLULOSE	CARBOXYMETHYL HYDROXYETHYLCELLULOSE	9004-30-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
CARICA PAPAYA (PAPAYA) FRUIT EXTRACT	CARICA PAPAYA (PAPAYA) FRUIT EXTRACT	84012-30-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CARICA PAPAYA (PAPAYA) FRUIT JUICE	CARICA PAPAYA (PAPAYA) FRUIT JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CARICA PAPAYA (PAPAYA) FRUIT JUICE	CARICA PAPAYA (PAPAYA) FRUIT JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CARICA PAPAYA SEED OIL	CARICA PAPAYA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
CARNITINE	CARNITINE	541-15-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CAROTENE	βCarotene.		The European Commission restricts the arsenic, lead, mercury, cadmium, and total heavy metal contents of this ingredient to maximum concentrations of 3 ppm, 10 ppm, 1 ppm, 1 ppm, and 40 ppm, respectively.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CARTHAMUS TINCTORIUS (SAFFLOWER) SEED OIL	CARTHAMUS TINCTORIUS (SAFFLOWER) SEED OIL	8001-23-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CARVACROL	CARVACROL	499752	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
CARVONE	CARVONE	99490	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.08% in lip products, 0.1% in deodorants/antiperspirants, 0.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.9% in mouthwashes, breath sprays, and toothpastes, 0.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CARVONE	CARVONE	2244168	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.08% in lip products, 0.1% in deodorants/antiperspirants, 0.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.9% in mouthwashes, breath sprays, and toothpastes, 0.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CARVONE	CARVONE	6485401	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.08% in lip products, 0.1% in deodorants/antiperspirants, 0.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.9% in mouthwashes, breath sprays, and toothpastes, 0.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CARVONE	CARVONE	99490	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.20% Category 2) 0.060% Category 3) 0.020% Category 4) 0.59% Category 5A) 0.20% Category 5B) 0.039% Category 5C) 0.059% Category 5D) 0.013% Category 6) 0.66% Category 7A) 0.039% Category 7B) 0.039% Category 8) 0.013% Category 9) 0.18% Category 10A) 0.18% Category 10B) 0.43% Category 11A) 0.013% Category 11B) 0.013% Category 12) 17%	
CARVONE	CARVONE	2244168	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.20% Category 2) 0.060% Category 3) 0.020% Category 4) 0.59% Category 5A) 0.20% Category 5B) 0.039% Category 5C) 0.059% Category 5D) 0.013% Category 6) 0.66% Category 7A) 0.039% Category 7B) 0.039% Category 8) 0.013% Category 9) 0.18% Category 10A) 0.18% Category 10B) 0.43% Category 11A) 0.013% Category 11B) 0.013% Category 12) 17%	
CARVONE	CARVONE	6485401	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.20% Category 2) 0.060% Category 3) 0.020% Category 4) 0.59% Category 5A) 0.20% Category 5B) 0.039% Category 5C) 0.059% Category 5D) 0.013% Category 6) 0.66% Category 7A) 0.039% Category 7B) 0.039% Category 8) 0.013% Category 9) 0.18% Category 10A) 0.18% Category 10B) 0.43% Category 11A) 0.013% Category 11B) 0.013% Category 12) 17%	
CARYOCAR BRASILIENSE FRUIT OIL	CARYOCAR BRASILIENSE FRUIT OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
CASEIN	Casein	9000719	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CASEIN	CASEIN	9000-71-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CASEIN EXTRACT	CASEIN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CASHMERAN	6,7Dihydro1,1,2,3,3pentamethyl4(5H)indanone (DPMI)	33704619	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.34% in lip products, 0.44% in deodorants/antiperspirants, 1.81% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 5.43% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 2.86% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 8.7% in mouthwashes, breath sprays, and toothpastes, 0.91% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CASHMERAN	6,7Dihydro1,1,2,3,3pentamethyl4(5H)indanone (DPMI)	33704619	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0063 % Category 2) 0.26 % Category 3) 0.019 % Category 4) 3.8 % Category 5A) 0.31 % Category 5B) 0.025 % Category 5C) 0.038 % Category 5D) 0.0084 % Category 6) 0.0063 % Category 7A) 0.031 % Category 7B) 0.031 % Category 8) 0.0084 % Category 9) 0.13 % Category 10A) 0.13 % Category 10B) 0.28 % Category 11A) 0.0084 % Category 11B) 0.0084 % Category 12) 9.4 %	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CASSIA	Senna Plant	8013114	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CASSIA ANGUSTIFOLIA (ALEXANDRIAN SENNA) SEED POLYSACCHARIDE	CASSIA ANGUSTIFOLIA (ALEXANDRIAN SENNA) SEED POLYSACCHARIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CASSIA HYDROXYPROPYLTRIMONIUM CHLORIDE	CASSIA HYDROXYPROPYLTRIMONIUM CHLORIDE		(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% in rinseoff products.	
CASTOR OIL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
CASTOR OIL BIS-HYDROXYPROPYL DIMETHICONE ESTERS	CASTOR OIL BIS-HYDROXYPROPYL DIMETHICONE ESTERS		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CASTOR OIL PHOSPHATE	CASTOR OIL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CATALASE	Catalase	9001-05-2	Required Warning: Health Canada requires the following warning text on the product label/package: 'This product is not intended for use on broken or abraded skin'.	
CEDRENE	Cedrene	11028425	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
CEDRENE	Cedrene	469614	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
CEDRENE	Cedrene	546281	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
CEDRUS ATLANTICA (ATLAS CEDAR) OIL	CEDRUS ATLANTICA WOOD EXTRACT	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CEDRUS ATLANTICA (ATLAS CEDAR) OIL	CEDRUS ATLANTICA WOOD OIL	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CEDRUS ATLANTICA BARK WATER	CEDRUS ATLANTICA BARK WATER	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CEDRUS ATLANTICA WOOD EXTRACT	CEDRUS ATLANTICA BARK EXTRACT	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CEDRUS ATLANTICA WOOD EXTRACT	CEDRUS ATLANTICA WOOD EXTRACT	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CEDRUS ATLANTICA WOOD EXTRACT	CEDRUS ATLANTICA WOOD OIL	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CEDRUS ATLANTICA WOOD EXTRACT	CEDRUS ATLANTICA BARK WATER	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CEDRUS ATLANTICA WOOD OIL	CEDRUS ATLANTICA WOOD OIL	92201553	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CELLOBIOSE OCTANONANOATE	CELLOBIOSE OCTANONANOATE	172585-66-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CELLULASE	cellulase	9012548	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CELLULASE	cellulase	9012548	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CELLULOSE	Cellulose	9004346	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CELLULOSE ACETATE	CELLULOSE ACETATE	9004-35-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
CELLULOSE ACETATE BUTYRATE	CELLULOSE ACETATE BUTYRATE	9004-36-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 17%.	
CELLULOSE ACETATE PROPIONATE CARBOXYLATE	CELLULOSE ACETATE PROPIONATE CARBOXYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CELLULOSE GUM	Cellulose Gum	9004-32-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 20%.	
CENTELLA ASIATICA (GOTU KOLA)	Centella asiatica derived ingredients		This Cosmetics Ingredient Review Panel found that these substances were safe as used up to a concentration of 0.5% when formulated to be non-sensitizing.	x
CENTELLA ASIATICA (GOTU KOLA) EXTRACT	Centella asiatica derived ingredients		This Cosmetics Ingredient Review Panel found that these substances were safe as used up to a concentration of 0.5% when formulated to be non-sensitizing.	x
CENTELLA ASIATICA (GOTU KOLA) EXTRACT	CENTELLA ASIATICA (GOTU KOLA) EXTRACT	84696-21-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
CENTELLA ASIATICA (GOTU KOLA) OIL	Centella asiatica derived ingredients		This Cosmetics Ingredient Review Panel found that these substances were safe as used up to a concentration of 0.5% when formulated to be non-sensitizing.	x
CENTELLA ASIATICA FLOWER/LEAF/STEM EXTRACT	CENTELLA ASIATICA FLOWER/LEAF/STEM EXTRACT	84696-21-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
Centella Asiatica Leaf Cell Extract	Centella asiatica derived ingredients		This Cosmetics Ingredient Review Panel found that these substances were safe as used up to a concentration of 0.5% when formulated to be non-sensitizing.	x
CENTELLA ASIATICA LEAF EXTRACT	Centella asiatica derived ingredients		This Cosmetics Ingredient Review Panel found that these substances were safe as used up to a concentration of 0.5% when formulated to be non-sensitizing.	x
CENTELLA ASIATICA LEAF EXTRACT	CENTELLA ASIATICA LEAF EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CENTELLA ASIATICA LEAF WATER	CENTELLA ASIATICA LEAF WATER	84696-21-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
CERAMIDE AP	CERAMIDE AP	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE AP	CERAMIDE AP	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE AS	CERAMIDE AS	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE AS	CERAMIDE AS	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE AS	CERAMIDE AS	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE EOP	CERAMIDE EOP	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE EOP	CERAMIDE EOP	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE EOP	CERAMIDE EOP	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE NG	Ceramide NG	100403-19-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
CERAMIDE NG	CERAMIDE NG	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE NG	CERAMIDE NG	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE NP	CERAMIDE NP	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE NP	CERAMIDE NP	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERAMIDE NS	CERAMIDE NS	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERATONIA SILIQUA (CAROB) GUM	CERATONIA SILIQUA GUM	9000-40-2	(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.07%.	
CERATONIA SILIQUA (CAROB) GUM	CERATONIA SILIQUA (CAROB) GUM	9000-40-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CERESIN	CERESIN	8001-75-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 20%.	
CERESIN	CLAYS AND MINERALS	8001-75-0	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CERESIN	CERESIN	8001750	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 3% and PAH levels must be below 10 ppb. Mineral waxes must have an average molecular weight of at least 500 Daltons and a viscosity value greater than or equal to 11 centistokes at 100oC or greater than or equal to 8 centistokes at 120oC. Additionally, no more than 5% of hydrocarbons with a chain length less than C25 may be present.	
CERIA/SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CERIA/SILICA TALC	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CEROTYL DIMETHICONE	CEROTYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CEROTYL DIMETHICONE	CEROTYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETALKONIUM CHLORIDE	Cetalkonium Chloride	122189	The European Commission restricts this ingredient to a maximum concentration of 3% (as benzalkonium chloride) in rinseoff hair (head) products. In the final products, the concentrations of benzalkonium chloride, bromide and saccharinate with alkyl chain of C14 or less must not exceed 0.1% (as benzalkonium chloride). Required Warning: The European Commission requires the following warning text on the product label/package: 'Avoid contact with the eyes'	
CETALKONIUM CHLORIDE	Cetalkonium Chloride	122189	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CETALKONIUM CHLORIDE	CETALKONIUM CHLORIDE	122-18-9	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETEARALKONIUM BROMIDE	CETEARALKONIUM BROMIDE		The European Commission restricts this ingredient to a maximum concentration of 3% (as benzalkonium chloride) in rinseoff hair (head) products. In the final products, the concentrations of benzalkonium chloride, bromide and saccharinate with alkyl chain of C14 or less must not exceed 0.1% (as benzalkonium chloride). Required Warning: The European Commission requires the following warning text on the product label/package: 'Avoid contact with the eyes'	
CETEARETH ALCOHOL	Cetareth Alcohol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-10	CETEARETH10	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-10 PHOSPHATE	Cetareth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-100	CETEARETH100	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-11	CETEARETH11	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-13	CETEARETH13	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-14	CETEARETH14		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-15	CETEARETH15	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-16	CETEARETH16	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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CETEARETH-16-18	Ceteareth1618		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-17	CETEARETH17	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-18	CETEARETH18	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-2	CETEARETH2	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-2 PHOSPHATE	Ceteareth2 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-20	CETEARETH20	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-21	Ceteareth21		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-22	CETEARETH22	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-23	CETEARETH23	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-24	CETEARETH24		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETEARETH-25	CETEARETH25	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-25 CARBOXYLIC ACID	Ceteareth25 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-27	CETEARETH27	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-28	CETEARETH28	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-29	CETEARETH29	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-3	CETEARETH3	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-30	CETEARETH30	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-33	CETEARETH33	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-34	CETEARETH34	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-4	CETEARETH4	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETEARETH-4 PHOSPHATE	Ceteareth4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-40	CETEARETH40	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-5	CETEARETH5	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-5 PHOSPHATE	Ceteareth5 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-50	CETEARETH50	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-55	CETEARETH55	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-6	CETEARETH6	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-6 OLIVATE	Ceteareth6 Olivat	226708414	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-60	CETEARETH60	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-60 MYRISTYL GLYCOL	Ceteareth60 Myristyl Glycol	96081399	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETEARETH-7	CETEARETH7	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-7 STEARATE	Ceteareth7 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-8	CETEARETH8	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-80	CETEARETH80	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARETH-9	CETEARETH9	68439496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARTRIMONIUM CHLORIDE	CETEARTRIMONIUM CHLORIDE		Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
CETEARYL ALCOHOL	CETEARYL ALCOHOL	67762-27-0	The Cosmetic Ingredient Review has determined that cetearyl alcohol (a component of emulsifying wax) is safe as used up to a concentration of 25%.	
CETEARYL ALCOHOL/ CETEARETH-20	Cetearyl Alcohol/ Ceteareth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETEARYL DIMETHICONE	CETEARYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETEARYL DIMETHICONE CROSSPOLYMER	CETEARYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETEARYL DIMETHICONE CROSSPOLYMER	CETEARYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CETEARYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER	CETEARYL DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CETEARYL ETHYLHEXANOATE	CETEARYL OCTANOATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETEARYL GLUCOSIDE	CETEARYL GLUCOSIDE	246159-33-1	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be nonirritating up to a maximum concentration of 3%.	
CETEARYL METHICONE	CETEARYL METHICONE	999999-93-8	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETEARYL NONANOATE	CETEARYL NONANOATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
CETETH-1	CETETH1	2136712	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-10	CETETH10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-10 PHOSPHATE	Ceteth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-10 STEARATE	Ceteth10 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-12	CETETH12	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-13	Ceteth13		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-13	CETETH-13		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETETH-14	CETETH14	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-15	CETETH15	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETETH-150	Ceteth150		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-150	CETETH-150		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETETH-16	CETETH16	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-17	Ceteth17		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-17	CETETH-17		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETETH-18	Ceteth18		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-18	CETETH-18		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETETH-2	CETETH2	5274613	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-20	CETETH20	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-20 PHOSPHATE	Ceteth20 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-23	Ceteth23		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-23	CETETH-23		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETETH-24	CETETH24	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-25	CETETH25	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-3	CETETH3	4484597	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-3 STEARATE	Ceteth3 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-30	CETETH30	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-4	CETETH4	5274635	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-4 STEARATE	Ceteth4 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-40	Ceteth40		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-40	CETETH-40		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETETH-45	CETETH45	9004959	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-5	CETETH5	4478971	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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CETETH-5 STEARATE	Ceteth5 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-56	Ceteth56		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-6	CETETH6	5168912	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-7	Ceteth7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-7	CETETH-7		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETETH-7 STEARATE	Ceteth7 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-8	Ceteth8		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-8 PHOSPHATE	Ceteth8 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETH-9 STEARATE	Ceteth9 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETHYL MORPHOLINIUM ETHOSULFATE	CETETHYL MORPHOLINIUM ETHOSULFATE	78217	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETETHYLDIMONIUM BROMIDE	Cetethyldimonium Bromide	124038	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETOLETH-10	CETOLETH10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-11	CETOLETH6	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-11	CETOLETH25	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-11	CETOLETH24	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-11	CETOLETH22	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-11	CETOLETH15	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-11	CETOLETH11	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-15	CETOLETH15	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-18	CETOLETH18	68155011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-2	CETOLETH2	68155011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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CETOLETH-20	CETOLETH20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-22	CETOLETH22	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-24	CETOLETH24	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-25	CETOLETH25	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-30	CETOLETH30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-4	CETOLETH2	68155011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-4	CETOLETH18	68155011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-4	CETOLETH5	68155011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-4	CETOLETH4	68155011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETOLETH-5	CETOLETH5	68155011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETOLETH-6	CETOLETH6	8065814	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETRIMONIUM BROMIDE	CETRIMONIUM BROMIDE	57-09-0	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
CETRIMONIUM CARBOXYDECYL PEG-8 DIMETHICONE	Cetrimonium Carboxydecyl Peg8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETRIMONIUM CARBOXYDECYL PEG-8 DIMETHICONE	CETRIMONIUM CARBOXYDECYL PEG-8 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETRIMONIUM CHLORIDE	CETRIMONIUM CHLORIDE	112-02-7	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
CETRIMONIUM CHLORIDE	CETRIMONIUM CHLORIDE	112-02-7	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
CETRIMONIUM DIMETHICONE PEG-7 PHTHALATE	Cetrimonium Dimethicone Peg7 Phthalate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETRIMONIUM LAURETH-12 SUCCINATE	Cetrimonium Laureth12 Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETYL ACETATE	CETYL ACETATE	629-70-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 17%.	
CETYL BEHENYL DIMETHICONE	CETYL BEHENYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETYL BETAINE	Cetyl Betaine	693334	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when formulated to be nonirritating up to 7.4%.	
CETYL DIMETHICONE	CETYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
CETYL DIMETHICONE	CETYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETYL DIMETHICONE/BIS-VINYLDIMETHICONE CROSSPOLYMER	CETYL DIMETHICONE/BIS-VINYLDIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETYL DIMETHICONE/BIS-VINYLDIMETHICONE CROSSPOLYMER	CETYL DIMETHICONE/BIS-VINYLDIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CETYL DIMETHYLOCTANOATE	CETYL DIMETHYLOCTANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETYL ESTERS	CETYL ESTERS	8002-23-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
CETYL GLYCERYL ETHER	CETYL GLYCERYL ETHER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CETYL HYDROXYETHYLCELLULOSE	CETYL HYDROXYETHYLCELLULOSE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
CETYL LACTATE	CETYL LACTATE	35274-05-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
CETYL MYRISTATE	CETYL MYRISTATE	2599-01-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
CETYL OCTANOATE	CETYL OCTANOATE	29710-31-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETYL PALMITATE	Cetyl palmitate	540-10-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%.	
CETYL PEG/ PPG-10/ 1 DIMETHICONE	Cetyl Peg/ Ppg10/ 1 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETYL PEG/ PPG-10/ 1 DIMETHICONE	CETYL PEG/ PPG-10/ 1 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETYL PEG/ PPG-10/ 1 DIMETHICONE	CETYL PEG/ PPG-10/ 1 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CETYL PEG/PPG-15/15 BUTYL ETHER DIMETHICONE	Cetyl Peg/ppg15/15 Butyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETYL PEG/PPG-15/15 BUTYL ETHER DIMETHICONE	CETYL PEG/PPG-15/15 BUTYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CETYL PEG/PPG-7/3 DIMETHICONE	Cetyl Peg/ppg7/3 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETYL PEG/PPG-7/3 DIMETHICONE	CETYL PEG/PPG-7/3 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CETYL PG HYDROXYETHYL PALMITAMIDE	CETYL PG HYDROXYETHYL PALMITAMIDE	110483073	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
CETYL PG HYDROXYETHYL PALMITAMIDE	N(3hexadecyloxy2hydroxypropyl)N(2hydroxyethyl)palmitamide	110483073	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
CETYL PHOSPHATE	CETYL PHOSPHATE	3539-43-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CETYL PPG-2 ISODECETH-7 CARBOXYLATE	Cetyl Ppg2 Isodeceth7 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETYL RICINOLEATE	CETYL RICINOLEATE	10401-55-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
CETYL RICINOLEATE BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
CETYL STEARATE	CETYL STEARATE	1190-63-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
CETYL TRIETHYLAMMONIUM DIMETHICONE COPOLYOL PHTHALATE	CETYL TRIETHYLAMMONIUM DIMETHICONE COPOLYOL PHTHALATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETYL TRIETHYLAMMONIUM DIMETHICONE PEG-8 PHTHALATE	Cetyl Triethylammonium Dimethicone Peg8 Phthalate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETYL TRIETHYLMONIUM DIMETHICONE COPOLYOL SUCCINATE	CETYL TRIETHYLMONIUM DIMETHICONE COPOLYOL SUCCINATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETYL TRIETHYLMONIUM DIMETHICONE PEG-8 PHTHALATE	Cetyl Triethylmonium Dimethicone Peg8 Phthalate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETYL TRIETHYLMONIUM DIMETHICONE PEG-8 PHTHALATE	CETYL TRIETHYLMONIUM DIMETHICONE PEG-8 PHTHALATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CETYL TRIETHYLMONIUM DIMETHICONE PEG-8 SUCCINATE	Cetyl Triethylmonium Dimethicone Peg8 Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CETYL TRIETHYLMONIUM DIMETHICONE PEG-8 SUCCINATE	CETYL TRIETHYLMONIUM DIMETHICONE PEG-8 SUCCINATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CETYL-PG HYDROXYETHYL DECANAMIDE	CETYLPG HYDROXYETHYL DECANAMIDE	143378761	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
CETYLAMINE HYDROFLUORIDE	CETYLAMINE HYDROFLUORIDE	3151595	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains Cetylamine hydrofluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
CETILPYRIDINIUM CHLORIDE	CETILPYRIDINIUMCHLORIDE	123-03-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in rinseoff products (not applied to mucosa).	
CETILPYRIDINIUM CHLORIDE	CETILPYRIDINIUMCHLORIDE	123-03-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.01% in products meant to be applied to the mucosa.	
CETILPYRIDINIUM CHLORIDE	CETILPYRIDINIUMCHLORIDE	123-03-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1% in leaveon products (not applied to mucosa).	
CEYLON CINNAMON OIL	CEYLON CINNAMON OIL	8015916	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CHAMOMILLA RECUTITA (CHAMOMILE) FLOWER POWDER	CHAMOMILLA RECUTITA FLOWER POWDER	84082-60-0	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be nonsensitizing up to a maximum concentration of 1%.	
CHAMOMILLA RECUTITA (MATRICARIA) EXTRACT	Chamomilla recutita (matricaria) extract	84082-60-0	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be nonsensitizing up to a maximum concentration of 0.61%.	
CHAMOMILLA RECUTITA (MATRICARIA) FLOWER	Chamomilla recutita (matricaria) flower		The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be nonsensitizing up to a maximum concentration of 0.2%.	
CHAMOMILLA RECUTITA (MATRICARIA) FLOWER EXTRACT	CHAMOMILLA RECUTITA (MATRICARIA) FLOWER EXTRACT	84082-60-0	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be nonsensitizing up to a maximum concentration of 0.8%.	
CHAMOMILLA RECUTITA (MATRICARIA) FLOWER EXTRACT	CHAMOMILLA RECUTITA (MATRICARIA) FLOWER EXTRACT	84082-60-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CHAMOMILLA RECUTITA (MATRICARIA) FLOWER OIL	Chamomilla recutita (matricaria) flower oil	8002-66-2	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be nonsensitizing up to a maximum concentration of 0.29%.	
CHAMOMILLA RECUTITA (MATRICARIA) OIL	Chamomilla recutita (matricaria) oil	8002-66-2	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be nonsensitizing up to a maximum concentration of 0.00005%.	
CHENOPODIUM QUINOA SEED OIL	CHENOPODIUM QUINOA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
Chicken	Chicken		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
CHIMYL ALCOHOL	CHIMYL ALCOHOL	506-03-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CHLORAMINE T	Chloramine T	127651	The European Commission restricts this ingredient to a maximum concentration of 0.2%.	
CHLORAMINE T	CHLORAMINET	127-65-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in rinseoff products (not applied to mucosa).	
CHLORAMINE T	CHLORAMINET	127-65-1	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
CHLORAMINE T	CHLORAMINET	127-65-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in leaveon products (not applied to mucosa).	
CHLORAMINE T	Chloramine T	127651	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
CHLORAMINE T	Chloramine T	127651	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHLORELLA VULGARIS (DERMOCHLORELLA ALGAE)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CHLORELLA VULGARIS (DERMOCHLORELLA ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CHLORHEXIDINE	Chlorhexidine	55561	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.14%.	
CHLORHEXIDINE	Chlorhexidine	55-56-1	Health Canada restricts this ingredient to a maximum concentration of 0.14% (calculated as chlorhexidine free base), 0.19% (calculated as chlorhexidine diacetate), 0.20% (calculated as chlorhexidine digluconate), and 0.16% (calculated as chlorhexidine dihydrochloride).	
CHLORHEXIDINE	Chlorhexidine	55-56-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1% in rinseoff products (not applied to mucosa).	
CHLORHEXIDINE	Chlorhexidine	55-56-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5% in products meant to be applied to the mucosa.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CHLORHEXIDINE	Chlorhexidine	55-56-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5% in leaveon products (not applied to mucosa).	
CHLORHEXIDINE	Chlorhexidine	55561	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
CHLORHEXIDINE	Chlorhexidine	55561	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHLORHEXIDINE DIACETATE	Chlorhexidine diacetate	56-95-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.19%.	
CHLORHEXIDINE DIGLUCONATE	CHLORHEXIDINE DIGLUCONATE	18472510	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
CHLORHEXIDINE DIGLUCONATE	CHLORHEXIDINEGLUCONATE	18472-51-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in products meant to be applied to the mucosa.	
CHLORHEXIDINE DIGLUCONATE	CHLORHEXIDINEGLUCONATE	18472-51-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in leaveon products (not applied to mucosa).	
CHLORHEXIDINE DIHYDROCHLORIDE	Chlorhexidine dihydrochloride	3697-42-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.16%.	
CHLORHEXIDINE DIHYDROCHLORIDE	CHLORHEXIDINEHYDROCHLORIDE	3697-42-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in rinseoff products (not applied to mucosa).	
CHLORHEXIDINE DIHYDROCHLORIDE	CHLORHEXIDINEHYDROCHLORIDE	3697-42-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.001% in products meant to be applied to the mucosa.	
CHLORHEXIDINE DIHYDROCHLORIDE	CHLORHEXIDINEHYDROCHLORIDE	3697-42-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in leaveon products (not applied to mucosa).	
CHLORIMIDE	CHLORIMIDE	3400-09-7	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
CHLORINE	chlorine	7782505	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHLOROACETAMIDE	2Chloroacetamide	79072	(*) The European Commission restricts this ingredient to a maximum concentration of 0.30%	
CHLOROBUTANOL	Chlorobutanol	1320-66-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1%.	
CHLOROBUTANOL	Chlorobutanol	57158	(*) The European Commission restricts this ingredient to a maximum concentration of 0.50%	
CHLORODECETH-14	Chlorodeceth14		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHLOROPHENE	2Benzyl4chlorophenol	120321	(*) The European Commission restricts this ingredient to a maximum concentration of 0.20%	
CHLOROTHALONIL	Chlorothalonil	1897456	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHLOROXYLENOL	CHLOROXYLENOL	1321239	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
CHLOROXYLENOL	Chlorxylenol	1321-23-9	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in rinseoff products (not applied to mucosa).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CHLOROXYLENOL	CHLOROXYLENOL	880401321239	(*) The European Commission restricts this ingredient to a maximum concentration of 0.50%	
CHLORPHENESIN	CHLORPHENESIN	104-29-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in rinseoff products (not applied to mucosa).	
CHLORPHENESIN	CHLORPHENESIN	104-29-0	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
CHLORPHENESIN	CHLORPHENESIN	104-29-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in leaveon products (not applied to mucosa).	
CHLORPHENESIN	3(pChlorophenoxy)propane1,2diol	104290	(*) The European Commission restricts this ingredient to a maximum concentration of 0.30%	
CHOLECALCIFEROL PEG-12 ETHER	Cholecalciferol Peg12 Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHOLESTEROL	Cholesterol	57885	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
CHOLESTEROL/HDI/PULLULAN COPOLYMER	CHOLESTEROL/HDI/PULLULAN COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CHOLETH-10	Choleth10	27321966	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHOLETH-15	Choleth15		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHOLETH-20	Choleth20	27321966	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHOLETH-24	Choleth20	27321966	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHOLETH-24	Choleth10	27321966	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHOLETH-24	CHOLETH24	27321966	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CHOLETH-24	CHOLETH24	27321-96-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1.3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane.	
CHOLETH-30	Choleth30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHOLETH-5	Choleth5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CHONDRUS CRISPUS (CARRAGEENAN)	CHONDRUS CRISPUS (CARRAGEENAN)	9000-07-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CHONDRUS CRISPUS (CARRAGEENAN) EXTRACT	CHONDRUS CRISPUS (CARRAGEENAN) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CHONDRUS CRISPUS (SEAWEED) EXTRACT.	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CHROMATE, POTASSIUM	Chromium Compounds	11073-34-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACETATE	Chromium Compounds	1066-30-4	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACID	Chromium Compounds	1308-14-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACID	Chromic Acid	1333820	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACID	CHROMIC ACID	1308-14-1	Per the U.S. FDA., chromium hydroxide green shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Water soluble matter, not more than 2.5%. Chromium in 2% NaOH extract, not more than 0.1% as Cr2O3 (based on sample weight). Boron (as B2O3), not more than 8 percent. Total volatile matter at 1000 °C, not more than 20%. Cr2O3 not less than 75%. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million.	x
CHROMIC ACID	CHROMIC ACID	1308-14-1	Per COSING, this ingredient must be free from chromate ions.	x
CHROMIC ACID, CALCIUM SALT (1:1)	Chromium Compounds	13765-19-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACID, DILITHIUM SALT	Chromium Compounds	14307-35-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACID, NICKEL(2+) SALT (1:1)	Nickel Compounds	14721-18-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACID, ZINC HYDROXIDE HYDRATE (1:2:2:1)	Chromium Compounds	15930-94-6	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	

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CHROMIC ACID, ZINC SALT	Chromium Compounds	13530-65-9	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIC ACID, ZINC SALT, BASIC	Chromium Compounds	50922-29-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMITE (MINERAL)	CLAYS AND MINERALS	1308-31-2	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
CHROMIUM	Chromium, Not Hexavalent	7440473	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens.	
CHROMIUM	Chromium Compounds	7440-47-3	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM	Chromium Metal	7440-47-3	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM	Chromium, Not Hexavalent	7440473	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM (III) SULFATE (2:3)	Chromium Compounds	10101-53-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM (III), DIPHENYL-, IODIDE	Chromium Compounds	12089-29-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM (VI) TRIOXIDE	Chromium Compounds	1333-82-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM (VI) TRIOXIDE	Chromic Acid	1333820	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM ASPARTATE	Chromium Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM BORIDE, DUST	Chromium Compounds	12007-16-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM CARBONYL	Chromium Compounds	13007-92-6	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM CHLORIDE	Chromium Compounds	10025-73-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM CHLORIDE, (OC-6-11)-	Chromium Compounds	14986-48-2	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM CHLORIDE, HEXAUREA	Chromium Compounds	14023-01-9	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM HYDROXIDE GREEN	Chromium Compounds	12001-99-9	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CHROMIUM HYDROXIDE GREEN	CHROMIUM HYDROXIDE GREEN	12001-99-9	Per the U.S. FDA., chromium hydroxide green shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Water soluble matter, not more than 2.5%. Chromium in 2% NaOH extract, not more than 0.1% as Cr2O3 (based on sample weight). Boron (as B2O3), not more than 8 percent. Total volatile matter at 1000 °C, not more than 20%. Cr2O3 not less than 75%. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million.	x
CHROMIUM HYDROXIDE SULFATE	Chromium Compounds	12336-95-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	

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CHROMIUM NICKEL OXIDE	Chromium Compounds	12018-18-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM NICKEL OXIDE	Nickel Compounds	12018-18-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM NITRATE	Chromium Compounds	10103-47-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM OXIDE	Chromium Compounds	12018-01-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM OXIDE GREENS	Chromium Compounds	1308-38-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM OXIDE GREENS	CHROMIUM OXIDE GREENS	1308-38-9	Per the U.S. FDA., the color additive chormium oxide greens shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Chromium in 2% NaOH extract, not more than 0.075% as Cr2O3 (based on sample weight). Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 20 parts per million. Mercury (as Hg), not more than 1 part per million. Cr2O3, not less than 95%.	x
CHROMIUM OXIDE GREENS	CHROMIUM OXIDE GREENS	1308-38-9	Per COSING, this ingredient must be free from chromate ions.	x
CHROMIUM OXIDE, AEROSOLS	Chromium Compounds	12018-40-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM PHOSPHATE	Chromium Compounds	7789-04-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM PICOLINATE	Chromium Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM POTASSIUM SULFATE (1:1:2)	Chromium Compounds	10141-00-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM POTASSIUM ZINC OXIDE	Chromium Compounds	37224-57-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM ZINC OXIDE	Chromium Compounds	12018-19-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, (BENZENE)TRICARBONYL-	Chromium Compounds	12082-08-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, BIS(BENZOATO)DIOXO-, TRIHYDRATE	Chromium Compounds	63950-89-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, BIS(TRIMETHOXYPHOSPHINE)TETRACARBONYL-	Chromium Compounds	22614-53-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, DICUMENYL-	Chromium Compounds	12001-89-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, HEXACARBONYLDI-PI-CYCLOPENTADIENYL-MU-MERCURIODI-	Chromium Compounds	12194-11-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, ION (CR 2+)	Chromium Compounds	22541-79-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, ION (CR 3+)	Chromium Compounds	16065-83-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, ION (CR 4+)	Chromium Compounds	15723-28-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, ION (CR 6+)	Chromium Compounds	18540-29-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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CHROMIUM, PENTACARBONYL(PIPERIDINE)-, (OC-6-22)-	Chromium Compounds	15710-39-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TETRACHLORO-MU-HYDROXY(MU-(OCTADECANOATO-O:O'))DI-	Chromium Compounds	15242-96-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TRICARBONYL((1,2,4,5,6-ETA)-1,3,5-CYCLOHEPTATRIENE)-	Chromium Compounds	12125-72-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TRICARBONYL(CHLOROBENZENE)-	Chromium Compounds	12082-03-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TRICARBONYL(P-DICHLOROBENZENE)-	Chromium Compounds	86409-62-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TRICARBONYL(TOLUENE)-	Chromium Compounds	12083-24-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TRIS(2-PYRIDINECARBOXYLATO-KAPPA-N(SUP 1),KAPPA-O(SUP 2))-, MONOHYDRATE	Chromium Compounds	27882-76-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TRIS(DIETHYLDITHIOCARBAMATO)-	Chromium Compounds	18898-57-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM, TRIS(DIMETHYLDITHIOCARBAMATO)-	Chromium Compounds	15627-48-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(1+), BIS(1,10-PHENANTHROLINE)DICHLORO-, CHLORIDE, DIHYDRATE, CIS-	Chromium Compounds	31282-15-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(3+), TRIS(1-PHENYL-1,3-BUTANEDIONATO)-	Chromium Compounds	16432-36-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(3+), TRIS(2,4-PENTANEDIONATO)-	Chromium Compounds	21679-31-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(II) CHLORIDE (1:2)	Chromium Compounds	10049-05-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(II), DIPHENYL-	Chromium Compounds	1271-54-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(III) CHLORIDE, HEXAHYDRATE (1:3:6)	Chromium Compounds	10060-12-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(III) FLUORIDE	Chromium Compounds	7788-97-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(III) NITRATE	Chromium Compounds	13548-38-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(III) NITRATE, NONAHYDRATE (1:3:9)	Chromium Compounds	7789-02-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(III) POTASSIUM SULFATE (1:1:2), DODECAHYDRATE	Chromium Compounds	7788-99-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(III) SULFATE, HEXAHYDRATE (2:3:6)	Chromium Compounds	15005-90-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMIUM(III), BIS(2,2'-BIPYRIDYL)DICHLORO-, CIS-	Chromium Compounds	27803-22-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMOCENE	Chromium Compounds	1271-24-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CHROMYL DICHLORIDE	Chromium Compounds	14977-61-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CI 11680	2[(4Methyl2nitrophenyl)azo]3oxoNp henylbutyramide	2512-29-0	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	

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CI 11680	CI 11680	2512-29-0	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 11710	2[(4Chloro2nitrophenyl)azo]N(2chlorophenyl)3oxobutyramide	6486-23-3	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 11710	CI 11710	6486-23-3	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 12010	4[(4Ethoxyphenyl)azo]naphthol	6535-42-8	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 12010	CI 12010	6535-42-8	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 14720	Aluminum Compounds	3567-69-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CI 14720	CI 14720	3567-69-9	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 122)	x
CI 15850 (D&C Red No. 6 or 7)	CI 15850	5858-81-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 15850 (D&C Red No. 6 or 7)	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7)	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7)	CI 15850 (D&C Red No. 6 or 7)	5858-81-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7)	CI 15850 (D&C Red No. 6 or 7)	5858-81-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7)	CI 15850 (D&C Red No. 6 or 7)	5858-81-1	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 180)	x
CI 15850 (D&C Red No. 6 or 7) Barium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 15850 (D&C Red No. 6 or 7) Barium Lake	CI 15850		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 15850 (D&C Red No. 6 or 7) Barium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Barium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Barium Lake	CI 15850 (D&C Red No. 6 or 7) Barium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Barium Lake	CI 15850 (D&C Red No. 6 or 7) Barium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Calcium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 15850 (D&C Red No. 6 or 7) Calcium Lake	CI 15850		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 15850 (D&C Red No. 6 or 7) Calcium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Calcium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Calcium Lake	CI 15850 (D&C Red No. 6 or 7) Calcium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Calcium Lake	CI 15850 (D&C Red No. 6 or 7) Calcium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CI 15850 (D&C Red No. 6 or 7) Lake	Color additives subject to batch certification	5281-04-9	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 15850 (D&C Red No. 6 or 7) Lake	CI 15850	5281-04-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 15850 (D&C Red No. 6 or 7) Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Lake	CI 15850 (D&C Red No. 6 or 7) Lake	5281-04-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Lake	CI 15850 (D&C Red No. 6 or 7) Lake	5281-04-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Strontium Lake	Color additives subject to batch certification	5858-81-1	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 15850 (D&C Red No. 6 or 7) Strontium Lake	CI 15850	5858-81-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 15850 (D&C Red No. 6 or 7) Strontium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Strontium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Strontium Lake	CI 15850 (D&C Red No. 6 or 7) Strontium Lake	5858-81-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Strontium Lake	CI 15850 (D&C Red No. 6 or 7) Strontium Lake	5858-81-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Zirconium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 15850 (D&C Red No. 6 or 7) Zirconium Lake	CI 15850		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 15850 (D&C Red No. 6 or 7) Zirconium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Zirconium Lake	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
CI 15850 (D&C Red No. 6 or 7) Zirconium Lake	CI 15850 (D&C Red No. 6 or 7) Zirconium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 15850 (D&C Red No. 6 or 7) Zirconium Lake	CI 15850 (D&C Red No. 6 or 7) Zirconium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 16230	Disodium 7hydroxy8(phenylazo)naphthalene1,3 disulphonate	1936-15-8	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 16230	CI 16230	1936-15-8	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 16255	ACID RED 18	2611827	The European Commission restricts this ingredient to a maximum concentration of 0.5% in nonoxidative hair dye products.	
CI 16255	AKA102	2611827	The European Commission restricts this ingredient to a maximum concentration of 0.5% in nonoxidative hair dye products.	
CI 16255	CI 16255	2611827	The European Commission restricts this ingredient to a maximum concentration of 0.5% in nonoxidative hair dye products.	
CI 16255	Aluminum Compounds	2611-82-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CI 16255	Cibachrome Brilliant Scarlet 3R	2611827	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
CI 16255	CI 16255	2611-82-7	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 124)	x
CI 18050	Disodium 5acetylamino4hydroxy3(phenylazo)naphthalene2,7disulphonate	3734-67-6	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 18050	CI 18050	3734-67-6	Per COSING, prohibited for use in products applied on mucous membranes. Purity criteria as set out in Commission Directive 95/45/EC (E 128).	x
CI 20040	CI 20040	5979-28-2	Per COSING, the maximum 3,3'-dimethylbenzidine concentration in the colouring agent: 5 ppm	x
CI 21100	CI 21100	5102-83-0	Per COSING, the maximum 3,3'-dimethylbenzidine concentration in the colouring agent: 5 ppm	x
CI 21108	CI 21108	5567-15-7	Per COSING, the maximum 3,3'-dimethylbenzidine concentration in the colouring agent: 5 ppm	x
CI 21230	2,2'[(Cyclohexylidenebis(2methyl4,1phenylene)azo)]bis[4cyclohexylphenol]	6706-82-7	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 21230	CI 21230	6706-82-7	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 28440	CI 28440	2519-30-4	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 151)	x
CI 40825	CI 40825	1109-11-1	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 160f)	x
CI 40850	CI 40850	514-78-3	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 161g)	x
CI 42051	CI 42051	3536-49-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 131)	x
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	Color additives subject to batch certification	3844-45-9	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090	3844-45-9	This substance must contain less than: 100 ppm manganese, 2 ppm lead, 1 ppm mercury, 1 ppm cadmium, and 100 ppm unsulfonated primary aromatic amines.	
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090	3844-45-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	3844-45-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	3844-45-9	Per COSING, the maximum concentration in ready to use preparation is 0.50%.	x
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	3844-45-9	Per COSING, the maximum concentration in ready to use preparation is 0.50%	x
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4)	3844-45-9	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 133)	x
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4) Aluminum Lake	Color additives subject to batch certification	53026-57-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4) Aluminum Lake	CI 42090	53026-57-6	This substance must contain less than: 100 ppm manganese, 2 ppm lead, 1 ppm mercury, 1 ppm cadmium, and 100 ppm unsulfonated primary aromatic amines.	
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4) Aluminum Lake	CI 42090	53026-57-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4) Aluminum Lake	CI 42090 (FD&C Blue No. 1 or D&C Blue No. 4) Aluminum Lake	53026-57-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CI 42510	(4(4Aminophenyl)(4iminocyclohexa2,5dienylidene)methyl)2methylaniline hydrochloride	632-99-5	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 42510	CI 42510	632-99-5	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 42520	4[(4Aminomtolyl)(4imino3methylcyclohexa2,5dienylidene)methyl]otoluidine monohydrochloride	3248-91-7	(*) The European Commission restricts this ingredient to a maximum concentration of 5 ppm in rinseoff products.	
CI 42520	CI 42520	3248-91-7	Per COSING, the maximum concentration in RTU preparation is 5 ppm	x
CI 42735	Hydrogen [4[[4(diethylamino)phenyl][4[ethyl[(3sulphonatobenzyl)amino]otolyl]methylene]3methylcyclohexa2,5dienylidene)(ethyl)(3sulphonatobenzyl)ammonium, sodium salt	6505-30-2	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 42735	CI 42735	6505-30-2	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 44045	[4[[4Anilino1naphthyl][4(dimethylamino)phenyl]methylene]cyclohexa2,5dienylidene]dimethylammonium chloride	2580-56-5	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 44045	CI 44045	2580-56-5	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 44090	CI 44090	3087-16-9	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 142)	x
CI 45350 (D&C Yellow No. 7 or 8)	Disodium 2(3oxo6oxidoxanthen9yl)benzoate	2321-07-5	(*) The European Commission restricts this ingredient to a maximum concentration of 6%	
CI 45350 (D&C Yellow No. 7 or 8)	Color additives subject to batch certification	2321-07-5	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45350 (D&C Yellow No. 7 or 8)	CI 45350	2321-07-5	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45350 (D&C Yellow No. 7 or 8)	CI 45350 (D&C Yellow No. 7 or 8)	2321-07-5	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45350 (D&C Yellow No. 7 or 8)	CI 45350 (D&C Yellow No. 7 or 8)	2321-07-5	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45350 (D&C Yellow No. 7 or 8)	CI 45350 (D&C Yellow No. 7 or 8)	2321-07-5	Per COSING, the maximum concentration in RTU preparation is 6%	x
CI 45350 (D&C Yellow No. 7 or 8) Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45350 (D&C Yellow No. 7 or 8) Lake	CI 45350		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45350 (D&C Yellow No. 7 or 8) Lake	CI 45350 (D&C Yellow No. 7 or 8) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45350 (D&C Yellow No. 7 or 8) Lake	CI 45350 (D&C Yellow No. 7 or 8) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22)	Color additives subject to batch certification	15086-94-9	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45380 (D&C Red No. 21 or 22)	CI 45380	15086-94-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45380 (D&C Red No. 21 or 22)	CI 45380 (D&C Red No. 21 or 22)	15086-94-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22)	CI 45380 (D&C Red No. 21 or 22)	15086-94-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22)	CI 45380 (D&C Red No. 21 or 22)	15086-94-9	Per COSING, this ingredient must contain < 1% 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid and < 2% 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid	x

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CI 45380 (D&C Red No. 21 or 22) Barium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45380 (D&C Red No. 21 or 22) Barium Lake	CI 45380		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45380 (D&C Red No. 21 or 22) Barium Lake	CI 45380 (D&C Red No. 21 or 22) Barium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22) Barium Lake	CI 45380 (D&C Red No. 21 or 22) Barium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22) Lake	Color additives subject to batch certification	15086-94-9	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45380 (D&C Red No. 21 or 22) Lake	CI 45380	15086-94-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45380 (D&C Red No. 21 or 22) Lake	CI 45380 (D&C Red No. 21 or 22) Lake	15086-94-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22) Lake	CI 45380 (D&C Red No. 21 or 22) Lake	15086-94-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22) Zirconium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45380 (D&C Red No. 21 or 22) Zirconium Lake	CI 45380		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45380 (D&C Red No. 21 or 22) Zirconium Lake	CI 45380 (D&C Red No. 21 or 22) Zirconium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45380 (D&C Red No. 21 or 22) Zirconium Lake	CI 45380 (D&C Red No. 21 or 22) Zirconium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45396	3',6'Dihydroxy4',5'dinitrospiro[isoben zofuran1(3H),9'[9H]xanthene]3one	24545-86-6	(*) The European Commission restricts this ingredient to a maximum concentration of 1% in lip products	
CI 45396	CI 45396	24545-86-6	Per COSING, the maximum concentration in RTU preparation is 1% when used in lip products. Only in free acid form, when used in lip products	x
CI 45405	Dipotassium 3,6dichloro2(2,4,5,7tetrabromo6oxid o3oxoxanthene9yl)benzoate	6441-77-6	(*) The European Commission prohibits the use of this ingredient in eye products.	
CI 45405	CI 45405	6441-77-6	Per COSING, prohibited for use in eye products. This ingredient must contain <1% 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid and <2% 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid.	x
CI 45410 (D&C Red No. 27 or 28)	CI 45410	2134-15-8	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45410 (D&C Red No. 27 or 28)	CI 45410 (D&C Red No. 27 or 28)	2134-15-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45410 (D&C Red No. 27 or 28)	CI 45410 (D&C Red No. 27 or 28)	2134-15-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45410 (D&C Red No. 27 or 28) Calcium Lake	CI 45410		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45410 (D&C Red No. 27 or 28) Calcium Lake	CI 45410 (D&C Red No. 27 or 28) Calcium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45410 (D&C Red No. 27 or 28) Calcium Lake	CI 45410 (D&C Red No. 27 or 28) Calcium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

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CI 45410 (D&C Red No. 27 or 28) Lake	CI 45410		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45410 (D&C Red No. 27 or 28) Lake	CI 45410 (D&C Red No. 27 or 28) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45410 (D&C Red No. 27 or 28) Lake	CI 45410 (D&C Red No. 27 or 28) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45410 (D&C Red No. 27 or 28) Zirconium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45410 (D&C Red No. 27 or 28) Zirconium Lake	CI 45410		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45410 (D&C Red No. 27 or 28) Zirconium Lake	CI 45410 (D&C Red No. 27 or 28) Zirconium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45410 (D&C Red No. 27 or 28) Zirconium Lake	CI 45410 (D&C Red No. 27 or 28) Zirconium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45425 (D&C Orange No. 10 or 11)	Color additives subject to batch certification	518-40-1	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45425 (D&C Orange No. 10 or 11)	CI 45425	518-40-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45425 (D&C Orange No. 10 or 11)	CI 45425 (D&C Orange No. 10 or 11)	518-40-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45425 (D&C Orange No. 10 or 11)	CI 45425 (D&C Orange No. 10 or 11)	518-40-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45425 (D&C Orange No. 10 or 11) Lake	Color additives subject to batch certification	38577-97-8	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
CI 45425 (D&C Orange No. 10 or 11) Lake	CI 45425	38577-97-8	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
CI 45425 (D&C Orange No. 10 or 11) Lake	CI 45425 (D&C Orange No. 10 or 11) Lake	38577-97-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 45425 (D&C Orange No. 10 or 11) Lake	CI 45425 (D&C Orange No. 10 or 11) Lake	38577-97-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 50420	CI 50420	8005-03-6	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 51319	CI 51319	6358-30-1	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 62045	ACID BLUE 62	4368563	The European Commission restricts this ingredient to a maximum concentration of 0.5% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
CI 62045	CI 62045	4368563	The European Commission restricts this ingredient to a maximum concentration of 0.5% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
CI 71105	Bisbenzimidazo[2,1b:2',1'']benzo[Imn][3,8]phenanthroline8,17dione	4424-06-0	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
CI 71105	CI 71105	4424-06-0	Per COSING, prohibited for use in products applied on mucous membranes.	x
CI 74260	Polychloro copper phthalocyanine	1328-53-6	(*) The European Commission prohibits the use of this ingredient in eye products.	
CI 74260	CI 74260	1328-53-6	Per COSING, prohibited for use in eye products.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CI 75120	Annatto	542-40-5	This ingredient must meet purity criteria as set out in European Commission Directive: Solvent residues Acetone, Methanol, or Hexane not more than 50 ppm singly or in combination; Dichloromethane not more than 10 ppm; Arsenic not more than 3 ppm, Lead	
CI 75120	CI 75120	542-40-5	Per the U.S. FDA., annatto extract, including pigments precipitated therefrom, shall conform to the following specifications: (1) Arsenic (as As), not more than 3 parts per million; lead as Pb, not more than 10 parts per million. (2) When solvents listed under paragraph (a)(1)(ii) of this section are used, annatto extract shall contain no more solvent residue than is permitted of the corresponding solvents in spice oleoresins under applicable food additive regulations in parts 170 through 189 of this chapter.	x
CI 75125	CI 75125	502-65-8	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 160d)	x
CI 75130	βCarotene.	7235-40-7	The European Commission restricts the arsenic, lead, mercury, cadmium, and total heavy metal contents of this ingredient to maximum concentrations of 3 ppm, 10 ppm, 1 ppm, 1 ppm, and 40 ppm, respectively.	
CI 75130	CI 75130	7235-40-7	Per the U.S. FDA., β-carotene shall conform to the following specifications: Physical state, solid. 1 percent solution in chloroform, clear. Loss of weight on drying, not more than 0.2 percent. Residue on ignition, not more than 0.2 percent. Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 3 parts per million. Assay (spectrophotometric), 96-101 percent.	x
CI 75130	CI 75130	7235-40-7	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 160a)	x
CI 75130	CI 75130	7235-40-7	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 160a)	x
CI 75130	CI 75130	7235-40-7	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 160a)	x
CI 75170	CI 75170	73-40-5	Per the U.S. FDA., the color additive guanine shall conform to the following specifications and shall be free from impurities other than those named to the extent that such other impurities may be avoided by good manufacturing practice: Guanine, not less than 75 percent. Hypoxanthine, not more than 25 percent. Ash (ignition at 800 °C), not more than 2 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Assay, not less than 96 percent total purines. Mercury (as Hg), not more than 1 part per million.; (2) Color additive mixtures of guanine may contain the following diluents: (i) For coloring cosmetics generally, only those diluents listed under § 73.1001(a)(1) & (ii) For coloring externally applied cosmetics, only those diluents listed in § 73.1001(b) and, in addition, nitrocellulose.	x
CI 75300	CI 75300	458-37-7	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 100)	x
CI 75470	Carmine	1390-65-4	The European Commission restricts the arsenic, lead, mercury, cadmium, and total heavy metal contents of this ingredient to maximum concentrations of 3 ppm, 10 ppm, 1 ppm, 1 ppm, and 40 ppm, respectively.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CI 75470	CI 75470	1390-65-4	Per the U.S. FDA., carmine shall conform to the following specifications: Volatile matter (at 135 °C. for 3 hours), not more than 20.0 percent. Ash, not more than 12.0 percent. Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 1 part per million. Carminic acid, not less than 50.0 percent.	x
CI 75470	CI 75470	1390-65-4	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 120)	x
CI 75810	Potassium Sodium Copper Chlorophyllin (chlorophyllinCopper Complex).	11006-34-1	The European Commission restricts the arsenic, lead, mercury, cadmium, and copper contents of this ingredient to maximum concentrations of 3 ppm, 10 ppm, 1 ppm, 1 ppm, and 200 ppm, respectively.	
CI 75810	CI 75810	11006-34-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 75810	CI 75810	11006-34-1	Per the U.S. FDA., potassium sodium copper chlorophyllin shall conform to the following specifications and shall be free from impurities other than those named to the extent that such other impurities may be avoided by good manufacturing practice: Moisture, not more than 5.0 percent. Nitrogen, not more than 5.0 percent. pH of 1 percent solution, 9 to 11. Total copper, not less than 4 percent and not more than 6 percent. Free copper, not more than 0.25 percent. Iron, not more than 0.5 percent. Lead (as Pb)), not more than 20 parts per million. Arsenic (as As), not more than 5 parts per million. Ratio, absorbance at 405 mμ to absorbance at 630 mμ, not less than 3.4 and not more than 3.9. Total color, not less than 75 percent.	x
CI 75810	CI 75810	11006-34-1	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 140, E 141)	x
CI 77000	Aluminum Powder	7429-90-5	The European Commission restricts the arsenic, lead, mercury, cadmium, and total heavy metals contents of this ingredient to maximum concentrations of 3 ppm, 10 ppm, 1 ppm, 1 ppm, and 40 ppm, respectively.	
CI 77000	Aluminum	7429905	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
CI 77000	Aluminum Compounds	7429-90-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CI 77000	Aluminum	7429905	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
CI 77000	CI 77000	7429-90-5	Per the U.S. FDA., aluminum powder shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Fineness, 100 percent shall pass through a 200-mesh screen and 95 percent shall pass through a 325-mesh screen. Mercury, not more than 1 part per million. Arsenic, not more than 3 parts per million. Lead, not more than 20 parts per million. Aluminum, not less than 99 percent.	x
CI 77000	CI 77000	7429-90-5	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 173)	x
CI 77004	BENTONITE	1302789	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8% (up to 80% in mud packs).	
CI 77004	CLAYS AND MINERALS	1302-78-9	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CI 77015	Aluminum Compounds	1309-37-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CI 77015	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CI 77015	CI 77015	1309-37-1	Per the U.S. FDA., iron oxides shall conform to the following specifications, all on an "as is" basis: Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 10 parts per million. Mercury (as Hg), not more than 3 parts per million.	x
CI 77015	CI 77015	1309-37-1	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E172)	x
CI 77015	CI 77015	1309-37-1	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E172)	x
CI 77120	CI 77120	7727-43-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CI 77400	CI 77400	7440-50-8	Per the U.S. FDA., copper powder shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Stearic or oleic acid, not more than 5 percent. Cadmium (as Cd), not more than 15 parts per million. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million. Copper (as Cu), not less than 95 percent. Maximum particle size 45µ (95 percent minimum).	x
CI 77499	Iron oxides	1332-37-2	The U.S. Food and Drug Administration and European Commission restrict the lead, arsenic, mercury, cadmium, barium, zinc, chromium, copper, and nickel contents of this ingredient to maximum concentrations of 10 ppm, 3 ppm, 1 ppm, 5 ppm, 50 ppm, 100 ppm, 100 ppm, 50 ppm, and 200 ppm, respectively.	
CI 77499	CI 77499	1332-37-2	Per the U.S. FDA., iron oxides shall conform to the following specifications, all on an "as is" basis: Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 10 parts per million. Mercury (as Hg), not more than 3 parts per million.	x
CI 77499	CI 77499	1332-37-2	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E172)	x
CI 77510	CI 77510		Per the U.S. FDA., ferric ammonium ferrocyanide shall conform to the following specifications and shall be free of impurities other than those named to the extent that the other impurities may be avoided by good manufacturing practice: Oxalic acid or its salts, not more than 0.1 percent. Water soluble matter, not more than 3 percent. Water soluble cyanide, not more than 10 parts per million. Volatile matter, not more than 4 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Nickel (as Ni), not more than 200 parts per million. Cobalt (as Co), not more than 200 parts per million. Mercury (as Hg), not more than 1 part per million. Total iron (as Fe corrected for volatile matter), not less than 33 percent and not more than 39 percent.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CI 77820	Silver.	7440-22-4	The U.S. Food and Drug Administration restricts the lead, arsenic, and mercury content of this ingredient to maximum concentrations of 10 ppm, 5 ppm, and 1 ppm, respectively.	
CI 77820	Silver	7440224	Health Canada restricts this ingredient to a maximum concentration of 0.04% in mouthwashes. Required Warning: Health Canada requires the following warning text on the package/label of products containing silver and/or its salts: 'This product contains silver and/ or silver salts'; 'Avoid contact with broken or abraded skin'.	
CI 77820	CI 77820	7440-22-4	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
CI 77820	CI 77820	7440-22-4	Per the U.S. FDA., silver shall conform to the following specifications and shall be free from impurities other than those named to the extent that such other impurities may be avoided by good manufacturing practice: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 5 parts per million. Mercury (as Hg), not more than 1 part per million. Silver (as Ag), not less than 99.9 percent.	x
CI 77820	CI 77820	7440-22-4	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E174)	x
CICHORIUM INTYBUS (CHICORY)	Chicory		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
CICHORIUM INTYBUS (CHICORY)	Cichorium intybus		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
Cichorium Intybus (Chicory) Root Oligosaccharides	Cichorium Intybus (Chicory) Root Oligosaccharides	68650-43-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CICLOPIROX OLAMINE	CICLOPIROX OLAMINE	41621492	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
CINNAMAL	Cinnamal	104552	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMAL	Cinnamic Aldehyde	104552	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.02% in deodorants/antiperspirants, 0.05% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.05% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.05% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.4% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.05% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.05% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CINNAMAL	Cinnamic Aldehyde	104552	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.045% Category 2) 0.014% Category 3) 0.021% Category 4) 0.25% Category 5A) 0.064% Category 5B) 0.042% Category 5C) 0.064% Category 5D) 0.014% Category 6) 0.15% Category 7A) 0.17% Category 7B) 0.17% Category 8) 0.014% Category 9) 0.49% Category 10A) 0.49% Category 10B) 1.8% Category 11A) 0.014% Category 11B) 0.014% Category 12) No Restriction	
CINNAMALDEHYDE DIMETHYL ACETAL	Cinnamic aldehyde dimethyl acetal	4364061	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.12% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.37% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.2% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.59% in mouthwashes, breath sprays, and toothpastes, 0.06% in intimate wipes, and baby wipes, 0.8% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 4.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CINNAMALDEHYDE DIMETHYL ACETAL	Cinnamic aldehyde dimethyl acetal	4364061	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.063 % Category 2) 0.019 % Category 3) 0.38 % Category 4) 0.35 % Category 5A) 0.089 % Category 5B) 0.089 % Category 5C) 0.089 % Category 5D) 0.089 % Category 6) 0.21 % Category 7A) 0.72 % Category 7B) 0.72 % Category 8) 0.037 % Category 9) 0.69 % Category 10A) 2.5 % Category 10B) 2.5 % Category 11A) 1.4 % Category 11B) 1.4 % Category 12) No Restriction	
CINNAMIC ACID, NICKEL(II) SALT	Nickel Compounds	63938-16-9	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
CINNAMOMUM CAMPHORA (CAMPHOR) EXTRACT	CINNAMOMUM CAMPHORA (CAMPHOR) EXTRACT		Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CINNAMOMUM CAMPHORA (CAMPHOR) LEAF EXTRACT	CINNAMOMUM CAMPHORA (CAMPHOR) LEAF EXTRACT	92201-50-8	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CINNAMOMUM CAMPHORA (CAMPHOR) OIL	CINNAMOMUM CAMPHORA (CAMPHOR) OIL	8008-51-3	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CINNAMOMUM CAMPHORA (CAMPHOR) OIL	CINNAMOMUM CAMPHORA (CAMPHOR) OIL	8008513	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA ROOT EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA ROOT OIL	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA WOOD EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA WOOD OIL	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	CINNAMOMUM CAMPHORA FORMOSANA LEAF EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	CINNAMOMUM CAMPHORA FORMOSANA ROOT EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	CINNAMOMUM CAMPHORA FORMOSANA ROOT OIL	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	CINNAMOMUM CAMPHORA FORMOSANA WOOD EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA LEAF OIL RECTIFIED	CINNAMOMUM CAMPHORA FORMOSANA WOOD OIL	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CINNAMOMUM CAMPHORA FORMOSANA ROOT EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA ROOT EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA ROOT OIL	CINNAMOMUM CAMPHORA FORMOSANA ROOT OIL	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA WOOD EXTRACT	CINNAMOMUM CAMPHORA FORMOSANA WOOD EXTRACT	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA FORMOSANA WOOD OIL	CINNAMOMUM CAMPHORA FORMOSANA WOOD OIL	92704035	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA GUM EXTRACT	CINNAMOMUM CAMPHORA GUM EXTRACT		Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD EXTRACT	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF OIL	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT OIL	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD EXTRACT	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD OIL	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF OIL	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF OIL	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF OIL	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF EXTRACT	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM LEAF OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD EXTRACT	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT EXTRACT	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT OIL	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT OIL	CINNAMOMUM CAMPHORA LINALOOLIFERUM ROOT OIL	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD EXTRACT	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD EXTRACT	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD EXTRACT	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD OIL	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD OIL	91745890	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD OIL	CINNAMOMUM CAMPHORA LINALOOLIFERUM WOOD OIL	91745890	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMOMUM ZEYLANICUM (CINNAMON) LEAF OIL	CINNAMOMUM ZEYLANICUM (CINNAMON) LEAF OIL	8015916	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CINNAMOMUM ZEYLANICUM (CINNAMON) LEAF OIL	CINNAMOMUM ZEYLANICUM (CINNAMON) LEAF OIL	8015916	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
CINNAMOMUM ZEYLANICUM (CINNAMON) LEAF OIL	CEYLON CINNAMON OIL	8015916	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CINNAMOMUM ZEYLANICUM (CINNAMON) LEAF OIL	CINNAMOMUM ZEYLANICUM (CINNAMON) LEAF OIL	8015916	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CINNAMONITRILE	Cinnamyl nitrile	1885387	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.13% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.13% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.13% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 0.13% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.13% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CINNAMONITRILE	Cinnamyl nitrile	4360478	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.13% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.13% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.13% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 0.13% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.13% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CINNAMONITRILE	Cinnamyl nitrile	1885387	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077 % Category 2) 0.023 % Category 3) 0.46 % Category 4) 0.43 % Category 5A) 0.11 % Category 5B) 0.11 % Category 5C) 0.11 % Category 5D) 0.11 % Category 6) 0.25 % Category 7A) 0.88 % Category 7B) 0.88 % Category 8) 0.045 % Category 9) 0.84 % Category 10A) 3.0 % Category 10B) 3.0 % Category 11A) 1.7 % Category 11B) 1.7 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CINNAMONITRILE	Cinnamyl nitrile	4360478	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077 % Category 2) 0.023 % Category 3) 0.46 % Category 4) 0.43 % Category 5A) 0.11 % Category 5B) 0.11 % Category 5C) 0.11 % Category 5D) 0.11 % Category 6) 0.25 % Category 7A) 0.88 % Category 7B) 0.88 % Category 8) 0.045 % Category 9) 0.84 % Category 10A) 3.0 % Category 10B) 3.0 % Category 11A) 1.7 % Category 11B) 1.7 % Category 12) No Restriction	
CINNAMYL ALCOHOL	Cinnamyl alcohol	104541	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CINNAMYL ALCOHOL	Cinnamic alcohol	104541	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.09% in lip products, 0.1% in deodorants/antiperspirants, 0.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.4% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.2% in mouthwashes, breath sprays, and toothpastes, 0.2% in intimate wipes, and baby wipes, 0.4% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CINNAMYL ALCOHOL	Cinnamic alcohol	104541	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.22 % Category 2) 0.067 % Category 3) 0.25 % Category 4) 1.2 % Category 5A) 0.32 % Category 5B) 0.25 % Category 5C) 0.25 % Category 5D) 0.085 % Category 6) 0.13 % Category 7A) 0.25 % Category 7B) 0.25 % Category 8) 0.085 % Category 9) 0.76 % Category 10A) 0.76 % Category 10B) 2.0 % Category 11A) 0.085 % Category 11B) 0.085 % Category 12) 51 %	
CINNAMYL BENZOATE	Benzoate	5320-75-2	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
CINOXATE	Cinoxate	104-28-9	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in products meant to be applied to the mucosa.	
CINOXATE	Cinoxate	104-28-9	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in leaveon products (not applied to mucosa).	
cis-3-HEXENYL BENZOATE	Benzoate	25152-85-6	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum 1% in the finished product.	x
cis-4-ISOPROPYL-CYCLOHEXANE-METHANOL	cis,trans4(Isopropyl)cyclohexanemethanol	13828370	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.25 % Category 2) 0.39 % Category 3) 0.099 % Category 4) 4.7 % Category 5A) 1.2 % Category 5B) 0.15 % Category 5C) 0.20 % Category 5D) 0.049 % Category 6) 0.0099 % Category 7A) 0.13 % Category 7B) 0.13 % Category 8) 0.049 % Category 9) 0.39 % Category 10A) 0.39 % Category 10B) 1.1 % Category 11A) 0.049 % Category 11B) 0.049 % Category 12) 28 %	
cis-ROSE KETONE-2	CISROSE KETONE2	23726923	The European Commission restricts this ingredient to a maximum concentration of 0.02% in nonoral products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
cis-ROSE KETONE-2	Rose ketones	23726923	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
cis-ROSE KETONE-2	Rose ketones	23726923	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
CITRAL	citral	5392405	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CITRAL	citral	5392405	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.2% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.6% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.3% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.4% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CITRAL	citral	5392405	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.032 % Category 3) 0.10 % Category 4) 0.60 % Category 5A) 0.15 % Category 5B) 0.15 % Category 5C) 0.15 % Category 5D) 0.051 % Category 6) 0.35 % Category 7A) 0.20 % Category 7B) 0.20 % Category 8) 0.051 % Category 9) 1.2 % Category 10A) 1.2 % Category 10B) 4.2 % Category 11A) 0.051 % Category 11B) 0.051 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRAL	citral	141275	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.032 % Category 3) 0.10 % Category 4) 0.60 % Category 5A) 0.15 % Category 5B) 0.15 % Category 5C) 0.15 % Category 5D) 0.051 % Category 6) 0.35 % Category 7A) 0.20 % Category 7B) 0.20 % Category 8) 0.051 % Category 9) 1.2 % Category 10A) 1.2 % Category 10B) 4.2 % Category 11A) 0.051 % Category 11B) 0.051 % Category 12) No Restriction	
CITRAL	citral	106263	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.032 % Category 3) 0.10 % Category 4) 0.60 % Category 5A) 0.15 % Category 5B) 0.15 % Category 5C) 0.15 % Category 5D) 0.051 % Category 6) 0.35 % Category 7A) 0.20 % Category 7B) 0.20 % Category 8) 0.051 % Category 9) 1.2 % Category 10A) 1.2 % Category 10B) 4.2 % Category 11A) 0.051 % Category 11B) 0.051 % Category 12) No Restriction	
CITRIC ACID	CITRICACID	77929	Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5 of final formulation. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a final pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	
CITRINE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CITRINE CRYSTAL INFUSION	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CITRINE EXTRACT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRONELLAL	CITRONELLAL	106230	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.41 % Category 2) 0.16 % Category 3) 0.026 % Category 4) 0.49 % Category 5A) 0.33 % Category 5B) 0.051 % Category 5C) 0.10 % Category 5D) 0.017 % Category 6) 0.82 % Category 7A) 0.077 % Category 7B) 0.077 % Category 8) 0.017 % Category 9) 1.4 % Category 10A) 1.4 % Category 10B) 2.3 % Category 11A) 0.017 % Category 11B) 0.017 % Category 12) No Restriction	
CITRONELLAL	CITRONELLAL	5949053	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.41 % Category 2) 0.16 % Category 3) 0.026 % Category 4) 0.49 % Category 5A) 0.33 % Category 5B) 0.051 % Category 5C) 0.10 % Category 5D) 0.017 % Category 6) 0.82 % Category 7A) 0.077 % Category 7B) 0.077 % Category 8) 0.017 % Category 9) 1.4 % Category 10A) 1.4 % Category 10B) 2.3 % Category 11A) 0.017 % Category 11B) 0.017 % Category 12) No Restriction	
CITRONELLOL	Citronellol	106229	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
CITRONELLOL	Citronellol	106229	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CITRONELLOL	Citronellol	1117619	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRONELLOL	Citronellol	26489010	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CITRONELLOL	Citronellol	6812788	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CITRONELLOL	Citronellol	141253	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRONELLOL	Citronellol	68916438	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CITRONELLOL	Citronellol	7540514	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CITRONELLOL	Citronellol	106229	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
CITRONELLOL	Citronellol	1117619	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
CITRONELLOL	Citronellol	26489010	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRONELLOL	Citronellol	6812788	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
CITRONELLOL	Citronellol	141253	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
CITRONELLOL	Citronellol	7540514	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
CITRULLUS LANATUS SEED OIL	CITRULLUS LANATUS (WATERMELON) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
CITRUS AMARA (NEROLI) FLOWER OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AMARA (NEROLI) FLOWER OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS ARANTIIUM DULCIS FLOWER OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS ARANTIIUM DULCIS FLOWER OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANIUM DULCIS (ORANGE) PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIFOLIA (LIME) FRUIT	CITRUS AURANTIFOLIA	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT	CITRUS AURANTIFOLIA (LIME) FRUIT	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT	CITRUS AURANTIFOLIA (LIME) FRUIT		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIFOLIA (LIME) FRUIT	CITRUS AURANTIFOLIA (LIME) FRUIT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA (LIME) EXTRACT	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA (LIME) PEEL EXTRACT	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA (LIME) FRUIT	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA (LIME) JUICE	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA (LIME) PEEL	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA LEAF OIL	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA PEEL POWDER	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	Citrus Aurantifolia (lime) Fruit Extract	90063-52-8	(*) The Cosmetic Ingredient Review restricts the 5methoxy-psoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leave-on products.	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	Lime oil expressed	90063528	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.70% Category 2) 0.70% Category 3) 0.70% Category 4) 0.70% Category 5A) 0.70% Category 5B) 0.70% Category 5C) 0.70% Category 5D) 0.70% Category 6) 0.70% Category 7A) no restriction Category 7B) 0.70% Category 8) 0.70% Category 9) no restriction Category 10A) no restriction Category 10B) 0.70% Category 11A) no restriction Category 11B) 0.70% Category 12) no restriction	
CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	CITRUS AURANTIFOLIA (LIME) FRUIT EXTRACT	90063-52-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIFOLIA (LIME) FRUIT OIL	CITRUS AURANTIFOLIA (LIME) OIL	8008262	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxy-psoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leave-on products.	
CITRUS AURANTIFOLIA (LIME) FRUIT OIL	Lime oil expressed	8008262	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.7% in leave-on products	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIFOLIA (LIME) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIFOLIA (LIME) JUICE	CITRUS AURANTIFOLIA (LIME) EXTRACT	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) JUICE	CITRUS AURANTIFOLIA (LIME) PEEL EXTRACT	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) JUICE	CITRUS AURANTIFOLIA (LIME) JUICE	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) JUICE	CITRUS AURANTIFOLIA (LIME) JUICE		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIFOLIA (LIME) JUICE	CITRUS AURANTIFOLIA (LIME) JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIFOLIA (LIME) LEAF OIL	CITRUS AURANTIFOLIA LEAF OIL	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) LEAF OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIFOLIA (LIME) LEAF OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIFOLIA (LIME) OIL	CITRUS AURANTIFOLIA (LIME) OIL	8008262	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIFOLIA (LIME) OIL	Lime oil expressed	8008262	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.7% in leaveon products	
CITRUS AURANTIFOLIA (LIME) OIL	Lime oil expressed	8008262	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.70% Category 2) 0.70% Category 3) 0.70% Category 4) 0.70% Category 5A) 0.70% Category 5B) 0.70% Category 5C) 0.70% Category 5D) 0.70% Category 6) 0.70% Category 7A) no restriction Category 7B) 0.70% Category 8) 0.70% Category 9) no restriction Category 10A) no restriction Category 10B) 0.70% Category 11A) no restriction Category 11B) 0.70% Category 12) no restriction	
CITRUS AURANTIFOLIA (LIME) OIL	Lime oil expressed	90063528	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.70% Category 2) 0.70% Category 3) 0.70% Category 4) 0.70% Category 5A) 0.70% Category 5B) 0.70% Category 5C) 0.70% Category 5D) 0.70% Category 6) 0.70% Category 7A) no restriction Category 7B) 0.70% Category 8) 0.70% Category 9) no restriction Category 10A) no restriction Category 10B) 0.70% Category 11A) no restriction Category 11B) 0.70% Category 12) no restriction	
CITRUS AURANTIFOLIA (LIME) OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIFOLIA (LIME) OIL	CITRUS AURANTIFOLIA (LIME) OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
CITRUS AURANTIFOLIA (LIME) PEEL	CITRUS AURANTIFOLIA (LIME) PEEL	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) PEEL	CITRUS AURANTIFOLIA (LIME) PEEL		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIFOLIA (LIME) PEEL EXTRACT	CITRUS AURANTIFOLIA (LIME) PEEL EXTRACT	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) PEEL EXTRACT	CITRUS AURANTIFOLIA (LIME) PEEL EXTRACT	90063-52-8	The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIFOLIA (LIME) PEEL OIL	CITRUS AURANTIFOLIA (LIME) OIL	8008262	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIFOLIA (LIME) PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIFOLIA (LIME) PEEL OIL	Lime oil expressed	8008262	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.7% in leaveon products	
CITRUS AURANTIFOLIA (LIME) PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIFOLIA (LIME) PEEL OIL	CITRUS AURANTIFOLIA (LIME) PEEL OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIFOLIA PEEL POWDER	CITRUS AURANTIFOLIA PEEL POWDER	90063528	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS AURANTIUM AMARA	Bitter Orange Peel Oil Expressed	68916041	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 1.25 % Category 2) 1.25 % Category 3) 1.25 % Category 4) 1.25 % Category 5A) 1.25 % Category 5B) 1.25 % Category 5C) 1.25 % Category 5D) 1.25 % Category 6) 1.25 % Category 7A) no restriction Category 7B) 1.25 % Category 8) 1.25 % Category 9) no restriction Category 10A) no restriction Category 10B) 1.25 % Category 11A) no restriction Category 11B) 1.25 % Category 12) no restriction	
CITRUS AURANTIUM AMARA (BITTER ORANGE) FLOWER OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	68916-04-1	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIUM AMARA (BITTER ORANGE) FLOWER OIL	Citrus oils and other furocoumarins containing essential oils	68916-04-1	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM AMARA (BITTER ORANGE) FLOWER WATER	Bitter Orange Peel Oil Expressed	68916041	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.25% in leaveon products	
CITRUS AURANTIUM AMARA (BITTER ORANGE) FRUIT EXTRACT	Bitter Orange Peel Oil Expressed	72968504	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.25% in leaveon products	
CITRUS AURANTIUM AMARA (BITTER ORANGE) FRUIT EXTRACT	Citrus Aurantium Amara (Bitter Orange) Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM AMARA (BITTER ORANGE) FRUIT EXTRACT	CITRUS AURANTIUM AMARA (BITTER ORANGE) FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM AMARA (BITTER ORANGE) LEAF/TWIG EXTRACT	Bitter Orange Peel Oil Expressed	68916041	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.25% in leaveon products	
CITRUS AURANTIUM AMARA (BITTER ORANGE) LEAF/TWIG OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM AMARA (BITTER ORANGE) LEAF/TWIG OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL	Bitter Orange Peel Oil Expressed	68916041	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.25% in leaveon products	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL	Citrus Aurantium Amara (Bitter Orange) Peel	68916-04-1	The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL EXTRACT	Citrus Aurantium Amara (Bitter Orange) Peel Extract	72968-50-4	The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL EXTRACT	Bitter Orange Peel Oil Expressed	72968504	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 1.25 % Category 2) 1.25 % Category 3) 1.25 % Category 4) 1.25 % Category 5A) 1.25 % Category 5B) 1.25 % Category 5C) 1.25 % Category 5D) 1.25 % Category 6) 1.25 % Category 7A) no restriction Category 7B) 1.25 % Category 8) 1.25 % Category 9) no restriction Category 10A) no restriction Category 10B) 1.25 % Category 11A) no restriction Category 11B) 1.25 % Category 12) no restriction	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	68916-04-1	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL OIL	Citrus oils and other furocoumarins containing essential oils	68916-04-1	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL OIL	CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL OIL	68916-04-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL POWDER	Bitter Orange Peel Oil Expressed	68916041	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.25% in leaveon products	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL POWDER	Citrus Aurantium Amara (Bitter Orange) Peel Powder		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL WATER	Bitter Orange Peel Oil Expressed	72968504	The International Fragrance Association restricts this ingredient to a maximum concentration of 1.25% in leaveon products	
Citrus Aurantium Amara Peel Oil	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT EXTRACT	Citrus Aurantium Bergamia (Bergamot) Fruit Extract	89957-91-5	(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT EXTRACT	Bergamot oil expressed	89957915	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.40 % Category 2) 0.40 % Category 3) 0.40 % Category 4) 0.40 % Category 5A) 0.40 % Category 5B) 0.40 % Category 5C) 0.40 % Category 5D) 0.40 % Category 6) 0.40 % Category 7A) no restriction Category 7B) 0.40 % Category 8) 0.40 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.40 % Category 11A) no restriction Category 11B) 0.40 % Category 12) no restriction	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT EXTRACT	CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT EXTRACT	89957-91-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT OIL	Bergamot oil expressed	8007-75-8	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.4% in leaveon products	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	8007-75-8	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT OIL	CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT OIL	8007758	The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT OIL	Bergamot oil expressed	8007758	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.40 % Category 2) 0.40 % Category 3) 0.40 % Category 4) 0.40 % Category 5A) 0.40 % Category 5B) 0.40 % Category 5C) 0.40 % Category 5D) 0.40 % Category 6) 0.40 % Category 7A) no restriction Category 7B) 0.40 % Category 8) 0.40 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.40 % Category 11A) no restriction Category 11B) 0.40 % Category 12) no restriction	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT OIL	Bergamot oil expressed	89957915	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.40 % Category 2) 0.40 % Category 3) 0.40 % Category 4) 0.40 % Category 5A) 0.40 % Category 5B) 0.40 % Category 5C) 0.40 % Category 5D) 0.40 % Category 6) 0.40 % Category 7A) no restriction Category 7B) 0.40 % Category 8) 0.40 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.40 % Category 11A) no restriction Category 11B) 0.40 % Category 12) no restriction	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils	8007-75-8	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT WATER	Citrus Aurantium Bergamia (Bergamot) Fruit Water		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT WATER	CITRUS AURANTIUM BERGAMIA (BERGAMOT) FRUIT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM BERGAMIA (BERGAMOT) LEAF OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) LEAF OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	92704-01-3	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM BERGAMIA (BERGAMOT) PEEL OIL	Citrus oils and other furocoumarins containing essential oils	92704-01-3	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM DULCIS (ORANGE) FLOWER OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	8016-38-4	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIUM DULCIS (ORANGE) FLOWER OIL	Citrus oils and other furocoumarins containing essential oils	8016-38-4	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM DULCIS (ORANGE) FRUIT EXTRACT	Citrus Aurantium Dulcis (orange) Fruit Extract	8028-48-6	(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) FRUIT POWDER	CITRUS AURANTIUM DULCIS (ORANGE) FRUIT POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM DULCIS (ORANGE) FRUIT WATER	Citrus Aurantium Dulcis (orange) Fruit Water	8028-48-6	(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) FRUIT WATER	CITRUS AURANTIUM DULCIS (ORANGE) FRUIT WATER	8028-48-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM DULCIS (ORANGE) JUICE	Citrus Aurantium Dulcis (orange) Juice		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) JUICE	CITRUS AURANTIUM DULCIS (ORANGE) JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM DULCIS (ORANGE) OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM DULCIS (ORANGE) PEEL EXTRACT	Citrus Aurantium Dulcis (Orange) Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) PEEL EXTRACT	Citrus Aurantium Sinensis Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURANTIUM DULCIS (ORANGE) PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	8028-48-6	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) PEEL OIL	Citrus oils and other furocoumarins containing essential oils	8028-48-6	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS AURANTIUM DULCIS (ORANGE) PEEL OIL	CITRUS AURANTIUM DULCIS (ORANGE) PEEL OIL	8028-48-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS AURANTIUM DULCIS (ORANGE) PEEL POWDER	Citrus Aurantium Dulcis (Orange) Peel Powder		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) PEEL WAX	Citrus Aurantium Dulcis (Orange) Peel Wax		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) WOOD OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS AURANTIUM DULCIS (ORANGE) WOOD OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS AURATIUM BERGAMIA (BERGAMOT) PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
Citrus Australasica Fruit Extract	Microcitrus Australasica Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS CLEMENTINA FRUIT EXTRACT	Citrus Clementina Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS CLEMENTINA FRUIT EXTRACT	CITRUS CLEMENTINA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS CLEMENTINA JUICE	Citrus Clementina Juice		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS CLEMENTINA JUICE	CITRUS CLEMENTINA JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS DEPRESSA FRUIT EXTRACT	Citrus Depressa Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS DEPRESSA FRUIT EXTRACT	CITRUS DEPRESSA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS GLAUCA FRUIT EXTRACT	Citrus Glauca Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GLAUCA FRUIT EXTRACT	CITRUS GLAUCA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	90045-43-5	(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	90045-43-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS GRANDIS (GRAPEFRUIT) FRUIT WATER	CITRUS GRANDIS (GRAPEFRUIT) FRUIT WATER	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS GRANDIS (GRAPEFRUIT) FRUIT WATER	CITRUS GRANDIS (GRAPEFRUIT) FRUIT WATER		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) FRUIT WATER	CITRUS GRANDIS (GRAPEFRUIT) FRUIT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS GRANDIS (GRAPEFRUIT) JUICE	CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) JUICE	CITRUS GRANDIS (GRAPEFRUIT) JUICE	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) JUICE	CITRUS GRANDIS (GRAPEFRUIT) PEEL EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) JUICE	CITRUS PARADISI (GRAPEFRUIT) SEED EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) JUICE	CITRUS GRANDIS (GRAPEFRUIT) JUICE		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) JUICE	CITRUS GRANDIS (GRAPEFRUIT) JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS GRANDIS (GRAPEFRUIT) LEAF EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) LEAF EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS GRANDIS (GRAPEFRUIT) PEEL	CITRUS GRANDIS (GRAPEFRUIT) PEEL	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) PEEL	CITRUS GRANDIS (GRAPEFRUIT) PEEL		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) PEEL EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) PEEL EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) PEEL EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) PEEL EXTRACT	90045-43-5	The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	8016204	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	CITRUS PARADISI (GRAPEFRUIT) FRUIT EXTRACT	8016204	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	CITRUS PARADISI (GRAPEFRUIT) JUICE	8016204	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	Grapefruit oil expressed	8016204	The International Fragrance Association restricts this ingredient to a maximum concentration of 4% in leaveon products	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	Grapefruit oil expressed	8016204	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 4% Category 2) 4% Category 3) 4% Category 4) 4% Category 5A) 4% Category 5B) 4% Category 5C) 4% Category 5D) 4% Category 6) 4% Category 7A) no restriction Category 7B) 4% Category 8) 4% Category 9) no restriction Category 10A) no restriction Category 10B) 4% Category 11A) no restriction Category 11B) 4% Category 12) no restriction	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	Grapefruit oil expressed	90045435	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 4% Category 2) 4% Category 3) 4% Category 4) 4% Category 5A) 4% Category 5B) 4% Category 5C) 4% Category 5D) 4% Category 6) 4% Category 7A) no restriction Category 7B) 4% Category 8) 4% Category 9) no restriction Category 10A) no restriction Category 10B) 4% Category 11A) no restriction Category 11B) 4% Category 12) no restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL	CITRUS GRANDIS (GRAPEFRUIT) PEEL OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS GRANDIS (GRAPEFRUIT) PEEL POWDER	CITRUS GRANDIS (GRAPEFRUIT) PEEL POWDER	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) PEEL POWDER	CITRUS GRANDIS (GRAPEFRUIT) PEEL POWDER		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) FRUIT EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) FRUIT WATER	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) JUICE	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) LEAF EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) PEEL EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) PEEL POWDER	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS PARADISI (GRAPEFRUIT) SEED EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	CITRUS GRANDIS (GRAPEFRUIT) PEEL	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	Citrus Grandis (Grapefruit) Seed Extract	90045435	This ingredient cannot contain triclosan, quaternary ammonium compounds, or parabens.	
CITRUS GRANDIS (GRAPEFRUIT) SEED EXTRACT	Grapefruit oil expressed	90045435	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 4% Category 2) 4% Category 3) 4% Category 4) 4% Category 5A) 4% Category 5B) 4% Category 5C) 4% Category 5D) 4% Category 6) 4% Category 7A) no restriction Category 7B) 4% Category 8) 4% Category 9) no restriction Category 10A) no restriction Category 10B) 4% Category 11A) no restriction Category 11B) 4% Category 12) no restriction	
CITRUS GRANDIS (GRAPEFRUIT) SEED OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS GRANDIS (GRAPEFRUIT) SEED OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS GRANDIS/PARADISI FRUIT WATER	CITRUS GRANDIS/PARADISI FRUIT WATER		The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS GRANDIS/PARADISI FRUIT WATER	CITRUS GRANDIS/PARADISI FRUIT WATER		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS GRANDIS/PARADISI FRUIT WATER	CITRUS GRANDIS/PARADISI FRUIT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS HYSTRIX LEAF OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS HYSTRIX LEAF OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS HYSTRIX PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	91771-50-5	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS HYSTRIX PEEL OIL	Citrus oils and other furocoumarins containing essential oils	91771-50-5	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS JABARA JUICE	Citrus Jabara Juice		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS JABARA JUICE	CITRUS JABARA JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS JABARA PEEL EXTRACT	Citrus Jabara Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS JAPONICA FRUIT EXTRACT	Citrus Japonica Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS JAPONICA FRUIT EXTRACT	CITRUS JAPONICA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS JUNOS FRUIT EXTRACT	Citrus Junos Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS JUNOS FRUIT EXTRACT	CITRUS JUNOS FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS JUNOS FRUIT POWDER	Citrus Junos Fruit Powder		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS JUNOS FRUIT POWDER	CITRUS JUNOS FRUIT POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
Citrus junos oil	Citrus oils and other furocoumarins containing essential oils (Bergapten)	233683-84-6	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
Citrus junos oil	Citrus oils and other furocoumarins containing essential oils	233683-84-6	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS JUNOS PEEL EXTRACT	Citrus Junos Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS JUNOS PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS JUNOS PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS JUNOS PEEL OIL	CITRUS JUNOS PEEL OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
Citrus Junos Peel Powder	Citrus Junos Peel Powder		The Cosmetic Ingredient Review restricts the 5-methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leave-on products.	x
Citrus Junos Peel Powder	Citrus Junos Peel Powder		The Cosmetic Ingredient Review panel concludes this substance is safe in the present practices of use and concentration in both rinse-off and leave-on cosmetic products when formulated to be non-sensitizing and non-irritating is up to a concentration of 0.002%.	x
CITRUS JUNOS PEEL WATER	Citrus Junos Peel Water		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS LIMON (LEMON) FRUIT EXTRACT	CITRUS LIMON (LEMON) FRUIT EXTRACT	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) FRUIT EXTRACT	CITRUS MEDICA LIMONUM (LEMON) EXTRACT	84929317	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) FRUIT EXTRACT	CITRUS LIMON (LEMON) FRUIT EXTRACT	84929-31-7	(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS LIMON (LEMON) FRUIT EXTRACT	Lemon oil cold pressed	84929317	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.0% Category 2) 2.0% Category 3) 2.0% Category 4) 2.0% Category 5A) 2.0% Category 5B) 2.0% Category 5C) 2.0% Category 5D) 2.0% Category 6) 2.0% Category 7A) no restriction Category 7B) 2.0% Category 8) 2.0% Category 9) no restriction Category 10A) no restriction Category 10B) 2.0% Category 11A) no restriction Category 11B) 2.0% Category 12) no restriction	
CITRUS LIMON (LEMON) FRUIT EXTRACT	CITRUS LIMON (LEMON) FRUIT EXTRACT	84929-31-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS LIMON (LEMON) FRUIT OIL	CITRUS MEDICA LIMONUM (LEMON) FRUIT OIL	8008568	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) FRUIT OIL	CITRUS MEDICA LIMONUM (LEMON) PEEL OIL	8008568	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	8008-56-8	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS LIMON (LEMON) FRUIT OIL	Lemon oil cold pressed	8008568	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in leaveon products	
CITRUS LIMON (LEMON) FRUIT OIL	Citrus Limon (lemon) Fruit Oil	8008-56-8	(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS LIMON (LEMON) FRUIT OIL	Lemon oil cold pressed	8008568	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.0% Category 2) 2.0% Category 3) 2.0% Category 4) 2.0% Category 5A) 2.0% Category 5B) 2.0% Category 5C) 2.0% Category 5D) 2.0% Category 6) 2.0% Category 7A) no restriction Category 7B) 2.0% Category 8) 2.0% Category 9) no restriction Category 10A) no restriction Category 10B) 2.0% Category 11A) no restriction Category 11B) 2.0% Category 12) no restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS LIMON (LEMON) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils	8008-56-8	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS LIMON (LEMON) FRUIT OIL	CITRUS LIMON (LEMON) FRUIT OIL	8008-56-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS LIMON (LEMON) FRUIT POWDER	CITRUS LIMON (LEMON) FRUIT POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS LIMON (LEMON) FRUIT WATER	CITRUS LIMON (LEMON) FRUIT WATER	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) FRUIT WATER	CITRUS LIMON (LEMON) FRUIT WATER		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS LIMON (LEMON) FRUIT WATER	CITRUS LIMON (LEMON) FRUIT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS LIMON (LEMON) JUICE	CITRUS LIMON (LEMON) JUICE	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) JUICE	CITRUS LIMON (LEMON) JUICE		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS LIMON (LEMON) JUICE	CITRUS LIMON (LEMON) JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS LIMON (LEMON) JUICE EXTRACT	CITRUS LIMON (LEMON) JUICE EXTRACT	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) JUICE EXTRACT	CITRUS LIMON (LEMON) JUICE EXTRACT		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS LIMON (LEMON) JUICE EXTRACT	CITRUS LIMON (LEMON) JUICE EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
Citrus limon (lemon) juice powder	Citrus limon (lemon) juice powder		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Citrus Limon (Lemon) Leaf Cell Extract	CITRUS LIMON (LEMON) LEAF EXTRACT	84929-31-7	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8-methoxypsoralen, 5-methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	x
CITRUS LIMON (LEMON) LEAF EXTRACT	CITRUS LIMON (LEMON) LEAF EXTRACT	84929-31-7	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8-methoxypsoralen, 5-methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	x
CITRUS LIMON (LEMON) LEAF OIL	CITRUS LIMON LEAF OIL	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) LEAF OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS LIMON (LEMON) LEAF OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS LIMON (LEMON) OIL BIOFLAVONOID	Citrus oils and other furocoumarins containing essential oils	61788-55-4	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS LIMON (LEMON) PEEL	Citrus Limon (Lemon) Peel		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS LIMON (LEMON) PEEL EXTRACT	CITRUS LIMON (LEMON) FRUIT EXTRACT	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS LIMON (LEMON) PEEL EXTRACT	CITRUS LIMON (LEMON) FRUIT WATER	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) PEEL EXTRACT	CITRUS LIMON (LEMON) JUICE	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) PEEL EXTRACT	CITRUS LIMON (LEMON) JUICE EXTRACT	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) PEEL EXTRACT	CITRUS LIMON LEAF OIL	92346899	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) PEEL EXTRACT	Citrus Limon (Lemon) Peel Extract	92346-89-9	The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS LIMON (LEMON) PEEL OIL	CITRUS MEDICA LIMONUM (LEMON) PEEL OIL	8008568	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS LIMON (LEMON) PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	8008-56-8	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS LIMON (LEMON) PEEL OIL	Citrus oils and other furocoumarins containing essential oils	8008-56-8	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS LIMON (LEMON) PEEL OIL	CITRUS LIMON (LEMON) PEEL OIL	8008-56-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS LIMON (LEMON) SEED OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS LIMON (LEMON) SEED OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS MADURENSIS FRUIT JUICE	Citrus Madurensis Fruit Juice		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS MADURENSIS FRUIT JUICE	CITRUS MADURENSIS FRUIT JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS MEDICA ACIDA PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils (Bergapten)	93685-55-3	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS MEDICA ACIDA PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils	93685-55-3	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS NOBILIS (MANDARIN ORANGE) PEEL OIL	CITRUS NOBILIS (MANDARIN ORANGE) PEEL OIL	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS NOBILIS (MANDARIN ORANGE) PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS OIL EXTRACT	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS OIL EXTRACT	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS PARADISI (GRAPEFRUIT) FRUIT EXTRACT	CITRUS PARADISI (GRAPEFRUIT) FRUIT EXTRACT	8016204	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS PARADISI (GRAPEFRUIT) FRUIT EXTRACT	CITRUS PARADISI (GRAPEFRUIT) FRUIT EXTRACT		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS PARADISI (GRAPEFRUIT) FRUIT EXTRACT	CITRUS PARADISI (GRAPEFRUIT) FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS PARADISI (GRAPEFRUIT) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS PARADISI (GRAPEFRUIT) FRUIT OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS PARADISI (GRAPEFRUIT) JUICE	CITRUS PARADISI (GRAPEFRUIT) JUICE	8016204	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS PARADISI (GRAPEFRUIT) JUICE	CITRUS PARADISI (GRAPEFRUIT) JUICE		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS PARADISI (GRAPEFRUIT) JUICE	CITRUS PARADISI (GRAPEFRUIT) JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS PARADISI (GRAPEFRUIT) OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS PARADISI (GRAPEFRUIT) OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS PARADISI (GRAPEFRUIT) PEEL EXTRACT	Citrus Paradisi (Grapefruit) Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS PARADISI (GRAPEFRUIT) PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS PARADISI (GRAPEFRUIT) PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS PARADISI (GRAPEFRUIT) SEED EXTRACT	CITRUS PARADISI (GRAPEFRUIT) SEED EXTRACT	90045435	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS PARADISI (GRAPEFRUIT) SEED OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS PARADISI (GRAPEFRUIT) SEED OIL	CITRUS PARADISI (GRAPEFRUIT) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 20%	
CITRUS PARADISI (GRAPEFRUIT) SEED OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS PARADISI PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS PARADISI,X C. RETICULATA PEEL EXTRACT	CITRUS PARADISI,X C. RETICULATA PEEL EXTRACT	93763952	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS PARADISI,X C. RETICULATA PEEL EXTRACT	CITRUS PARADISI,X C. RETICULATA PEEL OIL EXPRESSED	93763952	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS PARADISI,X C. RETICULATA PEEL OIL EXPRESSED	CITRUS PARADISI,X C. RETICULATA PEEL OIL EXPRESSED	93763952	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS PARADISI,X C. RETICULATA PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils (Bergapten)	93763-95-2	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS PARADISI,X C. RETICULATA PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils	93763-95-2	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS RETICULATA	Citrus Tangerina (tangerine) Fruit		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA	CITRUS RETICULATA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA FRUIT EXTRACT	CITRUS RETICULATA (MANDARIN ORANGE) FRUIT EXTRACT	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA FRUIT EXTRACT	CITRUS NOBILIS (MANDARIN ORANGE) PEEL OIL	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA FRUIT EXTRACT	Citrus Medica Vulgaris Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA FRUIT EXTRACT	Citrus Nobilis (mandarin Orange) Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA FRUIT EXTRACT	Citrus Nobilis (Mandarin Orange) Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA FRUIT EXTRACT	CITRUS RETICULATA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS RETICULATA FRUIT EXTRACT	CITRUS RETICULATA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA FRUIT EXTRACT	CITRUS RETICULATA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA FRUIT OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS RETICULATA FRUIT OIL	Citrus Unshiu Fruit Oil		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA FRUIT OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS RETICULATA FRUIT OIL	CITRUS RETICULATA FRUIT OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA JUICE	Citrus Nobilis (mandarin Orange) Fruit Juice		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA JUICE	CITRUS RETICULATA JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA LEAF OIL	Citrus reticulata leaf oil	8014173	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA LEAF OIL	CITRUSRETICULATALEAFOIL	8014173	Health Canada restricts this ingredient to a maximum concentration of 0.1% in leaveon products.	
CITRUS RETICULATA LEAF OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	8014-17-3	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS RETICULATA LEAF OIL	Citrus oils and other furocoumarins containing essential oils	8014-17-3	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS RETICULATA OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS RETICULATA OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
Citrus reticulata peel	Citrus Tangerina (Tangerine) Peel		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA PEEL EXTRACT	CITRUS RETICULATA (MANDARIN ORANGE) PEEL EXTRACT	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA PEEL EXTRACT	Citrus Aurantium Tachibana Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA PEEL EXTRACT	Citrus Reticulata (Tangerine) Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA PEEL EXTRACT	Citrus Unshiu Peel Extract		The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA PEEL OIL	CITRUS RETICULATA (MANDARIN ORANGE) PEEL OIL	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS RETICULATA PEEL OIL	CITRUS NOBILIS (MANDARIN ORANGE) PEEL OIL	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA PEEL OIL	CITRUS RETICULATA PEEL POWDER	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA PEEL OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxy-psoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS RETICULATA PEEL OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxy-psoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS RETICULATA PEEL OIL	CITRUS RETICULATA PEEL OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA PEEL OIL	CITRUS RETICULATA PEEL OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA PEEL OIL	CITRUS RETICULATA PEEL OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CITRUS RETICULATA PEEL POWDER	CITRUS RETICULATA PEEL POWDER	8008319	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA PEEL POWDER	Citrus Unshiu Peel Powder		The Cosmetic Ingredient Review restricts the 5methoxy-psoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	
CITRUS RETICULATA,X C. SINENSIS PEEL EXTRACT	CITRUS RETICULATA,X C. SINENSIS PEEL EXTRACT	93686227	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA,X C. SINENSIS PEEL EXTRACT	CITRUS RETICULATA,X C. SINENSIS PEEL OIL EXPRESSED	93686227	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxy-psoralen, 5methoxy-psoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS RETICULATA,X C. SINENSIS PEEL OIL EXPRESSED	CITRUS RETICULATA,X C. SINENSIS PEEL OIL EXPRESSED	93686227	The European Commission restricts this ingredient's furocoumarins content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CITRUS RETICULATA,X C. SINENSIS PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils (Bergapten)	93686-22-7	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS RETICULATA,X C. SINENSIS PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils	93686-22-7	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS SEED OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS SEED OIL	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS SPECIES LEAF OIL	Citrus oils and other furocoumarins containing essential oils (Bergapten)	94266-47-4	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CITRUS SPECIES LEAF OIL	Citrus oils and other furocoumarins containing essential oils	94266-47-4	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxy psoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CITRUS SPECIES PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils (Bergapten)	94266-47-4	The International Fragrance Association restricts the total bergapten (5methoxy psoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
CITRUS SPECIES PEEL OIL EXPRESSED	Citrus oils and other furocoumarins containing essential oils	94266-47-4	Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxy psoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
CLADOSIPHON NOVAE-CALEDONIAE EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CLADOSIPHON OKAMURANUS EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CLADOSIPHON OKAMURANUS EXTRACT	CLADOSIPHON OKAMURANUS EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Clay fabric softeners	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
CLAY MINERALS	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
CLIMBAZOLE	1(4Chlorophenoxy)1(imidazolyl)3,3dimethylbutan2one	38083179	(*) The European Commission restricts this ingredient to a maximum concentration of 0.50%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CLIMBAZOLE	1(4Chlorophenoxy)1(imidazolyl)3,3dimethylbutan2one	38083179	Europe restricts this chemical: Rinseoff antidandruff shampoo maximum concentration in ready for use preparation: 2.0%; For purposes other than inhibiting the development of microorganisms in the product. This purpose has to be apparent from the presentation of the product.	
CLIMBAZOLE	CLIMBAZOLE	38083-17-9	Per COSING, the maximum concentration in RTU preparation is a) 0.2% in hair lotions, b) 0.2% in face creams, c) 0.2% in foot care products, d) 0.5% in rinse-off shampoo.	x
CLOFLUCARBAN	Halocarban	369-77-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in products meant to be applied to the mucosa.	
CLOFLUCARBAN	Halocarban	369-77-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in leaveon products (not applied to mucosa).	
CLOVER HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
CLOVER HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
CLOVER HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
COAL LIQUIDS, LIQ. SOLVENT EXTN.	Coal liquids, liq. solvent extrn.	94114484	The European Commission bans this ingredient from use in cosmetics if it contains over 0.005% w/w benzo[a]pyrene	
COAL LIQUIDS, LIQ. SOLVENT EXTN. SOLN.	Coal liquids, liq. solvent extrn. soln.	94114473	The European Commission bans this ingredient from use in cosmetics if it contains over 0.005% w/w benzo[a]pyrene	
COBALT	cobalt	7440484	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
COBALT	cobalt	7440484	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
COBALT ALLOY, BASE, CO 48-58,CR 24-26,NI 9.5-12,W 7-8,FE 2,MN 0-1,SI 0-1,C 0.4-0.6 (ASTM A567-	Chromium Compounds	12638-07-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
COBALT ALLOY, BASE, CO 48-58,CR 24-26,NI 9.5-12,W 7-8,FE 2,MN 0-1,SI 0-1,C 0.4-0.6 (ASTM A567-	Nickel Compounds	12638-07-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
COBALT ALLOY, CO,CR	Chromium Compounds	11114-92-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
COBALT ALUMINUM OXIDE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
COCAMIDE DEA	COCAMIDE DEA	68603429	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
COCAMIDE DEA	COCAMIDE DEA	68603429	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
COCAMIDE DIPA	COCAMIDE DIPA		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
COCAMIDE MIPA	COCAMIDE MIPA	68333-82-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
COCAMIDOPROPYL BETAINEAMIDE MEA CHLORIDE	COCAMIDOPROPYL BETAINEAMIDE MEA CHLORIDE	164288-56-6	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
COCAMIDOPROPYL BETAINE	COCAMIDOPROPYL BETAINE	86438791	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
COCAMIDOPROPYL DIMETHYLAMINE	Cocamidopropyl Dimethylamine	68140012	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
COCAMIDOPROPYL HYDROXSULTAINE	Cocamidopropyl hydroxysultaine	68139300	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 11.5%.	
COCAMIDOPROPYL HYDROXSULTAINE	Cocamidopropyl hydroxysultaine	68139-30-0	The CIR panel expressed concern about DMAPA impurities in this ingredient. The concentration of DMAPA in this ingredient must not exceed 0.01%. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	x
COCAMIDOPROPYLAMINE OXIDE	COCAMIDOPROPYLAMINE OXIDE	68155-09-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4% in rinseoff products.	
COCAMIDOPROPYLAMINE OXIDE	COCAMIDOPROPYLAMINE OXIDE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%. The concentration of DMAPA should not exceed 0.01%.	x
COCAMINE	COCAMINE	61788463	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
COCETH-7	COCETH7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
coco methyl ester ethoxylate	Coco Methyl Ester Ethoxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
COCO-BETAINE	COCO-BETAINE	68424-94-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
COCO-CAPRYLATE/CAPRATE	CocoCaprylate/Caprate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used when formulated to be nonirritating up to 62%.	
COCO-HYDROXSULTAINE	COCO-HYDROXSULTAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COCO-SULTAINE	COCO-SULTAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COCO/OLEAMIDOPROPYL BETAINE	coco/oleamidopropyl betaine	86438-79-1	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
COCO/SUNFLOWERAMIDOPROPYL BETAINE	COCO/SUNFLOWERAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
COCO/SUNFLOWERAMIDOPROPYL BETAINE	COCO/SUNFLOWERAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
COCO/SUNFLOWERAMIDOPROPYL BETAINE	COCO/SUNFLOWERAMIDOPROPYL BETAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
COCODIMONIUM HYDROXYPROPYL HYDROLYZED RICE PROTEIN	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
COCONUT ALCOHOL	COCONUT ALCOHOL	68425-37-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.9%.	
COCONUT FATTY ACID	Coconut Acid	61788-47-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
COCONUT OIL ALCOHOL, ETHOXYLATED	Coconut Oil Alcohol, Ethoxylated	61791-13-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
COCONUT OIL PEG-10 ESTERS	Coconut Oil Peg10 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
COCONUT OIL PEG-10 ESTERS	COCONUT OIL PEG-10 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
COCONUT OIL PPG-2-PEG-6 ESTERS	Coconut Oil Ppg2Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
COCOS NUCIFERA (COCONUT) FRUIT JUICE	COCOS NUCIFERA (COCONUT) FRUIT JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COCOS NUCIFERA (COCONUT) OIL	COCOS NUCIFERA (COCONUT) OIL	8001-31-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COCOTRIMONIUM CHLORIDE	COCOTRIMONIUM CHLORIDE	61789-18-2	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
COCOYL GLUTAMIC ACID	Cocoyl glutamic acid		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 24%	
COCOYL SARCOSINE	COCOYL SARCOSINE	68411-97-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products.	
COD LIVER/MINK/TALLOW TRIGLYCERIDE	COD LIVER/MINK/TALLOW TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CODIUM TOMENTOSUM (ALGAE)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CODIUM TOMENTOSUM (ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
COENOCHELOSIS SIGNIENSIS EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
COFFEA ARABICA (ARABIAN COFFEE)	COFFEA ARABICA (ARABIAN COFFEE)	84650-00-0	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
COLISTIN	Colistin	1066177	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
COLLAGEN	HYDROLYZED COLLAGEN	9007-34-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
COLLAGEN	COLLAGEN	9007-34-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COLLAGEN AMINO ACIDS	COLLAGEN AMINO ACIDS	9015-54-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COLLODION	COLLODION	9004-70-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COLLOIDAL CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
COLLOIDAL KAOLIN	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
COLOSTRUM	Colostrum		FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
COMFREY POWDER	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
COMMIPHORA ERYTHREA GLABRESCENS GUM EXTRACT	COMMIPHORA ERYTHREA GLABRESCENS GUM EXTRACT	93686001	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
COMMIPHORA ERYTHREA GLABRESCENS GUM OIL	COMMIPHORA ERYTHREA GLABRESCENS GUM OIL	93686001	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
COMMIPHORA ERYTHREA GLABRESCENS GUM OIL	COMMIPHORA ERYTHREA GLABRESCENS GUM EXTRACT	93686001	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
CONIFERYL BENZOATE	Benzoate	4159-29-9	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
COPERNICIA CERIFERA (CARNAUBA) WAX	COPERNICIA CERIFERA (CARNAUBA) WAX	8015-86-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
COPPER TRIPEPTIDE-1	COPPER TRIPEPTIDE-1	89030-95-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CORALLINA OFFICINALIS EXTRACT	CORALLINA OFFICINALIS EXTRACT	89997-92-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CORALLINA OFFICINALIS POWDER	CORALLINA OFFICINALIS POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CORN GLUTEN AMINO ACIDS	CORN GLUTEN AMINO ACIDS	65072-01-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CORN OIL PEG-6 ESTERS	Corn Oil Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CORN OIL PEG-6 ESTERS	CORN OIL PEG-6 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CORN OIL PEG-8 ESTERS	Corn Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
CORN OIL PEG-8 ESTERS	CORN OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
CORN STARCH, MODIFIED	CORN STARCH, MODIFIED		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CORN STARCH/ ACRYLAMIDE/ SODIUM ACRYLATE COPOLYMER	CORN STARCH/ ACRYLAMIDE/ SODIUM ACRYLATE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
CORNAMIDE DEA	CORNAMIDE DEA		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CORNAMIDE DEA	CORNAMIDE DEA		The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
CORNAMIDE/COCAMIDE DEA	Cornamide/cocamide DEA		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
CORNAMIDE/COCAMIDE DEA	Cornamide/cocamide DEA		The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
CORUNDUM	Aluminum Oxide, Corundum	1302745	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
COSO GREEN CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
COTTONSEED GLYCERIDE	COTTONSEED GLYCERIDE	8029-44-5	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: gossypol, heavy metals, and pesticides.	
COUMARIN	Coumarin	91645	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
COUMARIN	Coumarin	91645	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.13% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.6% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.8% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.5% in mouthwashes, breath sprays, and toothpastes, 0.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
COUMARIN	Coumarin	91645	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.089% Category 2) 0.080% Category 3) 0.089% Category 4) 1.5% Category 5A) 0.38% Category 5B) 0.11% Category 5C) 0.16% Category 5D) 0.035% Category 6) 0.0024% Category 7A) 0.18% Category 7B) 0.18% Category 8) 0.035% Category 9) 0.52% Category 10A) 0.52% Category 10B) 1.6% Category 11A) 0.035% Category 11B) 0.035% Category 12) 33%	
COUMARIN, 3-GLYOXYLOYL-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
COUMARIN, 3-GLYOXYLOYL-8-METHOXY-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
CREOSOTE OIL, HIGH-BOILING DISTILLATE	CREOSOTE OIL, HIGHBOILING DISTILLATE	70321798	The European Commission bans this ingredient from use in cosmetics if it contains over 0.005% w/w benzo[a]pyrene	
CRESYL ALCOHOL	pTolyl alcohol	589184	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.048 % Category 2) 0.048 % Category 3) 0.048 % Category 4) 1.5 % Category 5A) 0.64 % Category 5B) 0.048 % Category 5C) 0.048 % Category 5D) 0.016 % Category 6) 0.048 % Category 7A) 0.048 % Category 7B) 0.048 % Category 8) 0.016 % Category 9) 0.53 % Category 10A) 0.53 % Category 10B) 0.048 % Category 11A) 0.016 % Category 11B) 0.016 % Category 12) No Restriction	
CUBEB OIL	Cubeb oil	8007872	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
CUCUMIS SATIVUS (CUCUMBER)	CUCUMIS SATIVUS (CUCUMBER)		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CUCUMIS SATIVUS (CUCUMBER) FRUIT EXTRACT	CUCUMIS SATIVUS (CUCUMBER) FRUIT EXTRACT	89998-01-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CUCUMIS SATIVUS (CUCUMBER) FRUIT EXTRACT	CUCUMIS SATIVUS (CUCUMBER) FRUIT EXTRACT	89998-01-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CUCUMIS SATIVUS (CUCUMBER) FRUIT WATER	CUCUMIS SATIVUS (CUCUMBER) FRUIT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CUCUMIS SATIVUS (CUCUMBER) JUICE	CUCUMIS SATIVUS (CUCUMBER) JUICE	8024-36-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CUCUMIS SATIVUS (CUCUMBER) SEED EXTRACT	CUCUMIS SATIVUS (CUCUMBER) SEED EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CUMINALDEHYDE	CUMINALDEHYDE	122032	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.17% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.26% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.11% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CUMINALDEHYDE	CUMINALDEHYDE	122032	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.085 % Category 2) 0.025 % Category 3) 0.51 % Category 4) 0.47 % Category 5A) 0.12 % Category 5B) 0.12 % Category 5C) 0.12 % Category 5D) 0.12 % Category 6) 0.28 % Category 7A) 0.96 % Category 7B) 0.96 % Category 8) 0.050 % Category 9) 0.92 % Category 10A) 3.3 % Category 10B) 3.3 % Category 11A) 1.8 % Category 11B) 1.8 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CUMINOL	PISOPROPYLBENZYL ALCOHOL	536607	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.45 % Category 2) 0.14 % Category 3) 0.40 % Category 4) 2.5 % Category 5A) 0.64 % Category 5B) 0.64 % Category 5C) 0.64 % Category 5D) 0.21 % Category 6) 1.5 % Category 7A) 0.80 % Category 7B) 0.80 % Category 8) 0.21 % Category 9) 2.0 % Category 10A) 2.0 % Category 10B) 4.8 % Category 11A) 0.21 % Category 11B) 0.21 % Category 12) No Restriction	
CUMINUM CYMINUM (CUMIN) SEED EXTRACT	CUMINUM CYMINUM (CUMIN) SEED EXTRACT	84775519	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
CUMINUM CYMINUM (CUMIN) SEED EXTRACT	CUMINUM CYMINUM (CUMIN) SEED EXTRACT	84775519	The European Commission restricts this ingredient to a maximum concentration of 0.4% (as cumin oil) in leaveon products.	
CUMINUM CYMINUM (CUMIN) SEED EXTRACT	CUMINUM CYMINUM SEED POWDER	84775519	The European Commission restricts this ingredient to a maximum concentration of 0.4% (as cumin oil) in leaveon products.	
CUMINUM CYMINUM (CUMIN) SEED EXTRACT	Cumin oil	84775519	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.40 % Category 2) 0.40 % Category 3) 0.40 % Category 4) 0.40 % Category 5A) 0.40 % Category 5B) 0.40 % Category 5C) 0.40 % Category 5D) 0.40 % Category 6) 0.40 % Category 7A) no restriction Category 7B) 0.40 % Category 8) 0.40 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.40 % Category 11A) no restriction Category 11B) 0.40 % Category 12) no restriction	
CUMINUM CYMINUM (CUMIN) SEED OIL	CUMINUM CYMINUM (CUMIN) SEED OIL	8014139	The European Commission restricts this ingredient to a maximum concentration of 0.4% (as cumin oil) in leaveon products.	
CUMINUM CYMINUM (CUMIN) SEED OIL	Cumin oil	8014139	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.4% in leaveon products	
CUMINUM CYMINUM (CUMIN) SEED OIL	Cumin oil	8014139	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.40 % Category 2) 0.40 % Category 3) 0.40 % Category 4) 0.40 % Category 5A) 0.40 % Category 5B) 0.40 % Category 5C) 0.40 % Category 5D) 0.40 % Category 6) 0.40 % Category 7A) no restriction Category 7B) 0.40 % Category 8) 0.40 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.40 % Category 11A) no restriction Category 11B) 0.40 % Category 12) no restriction	
CUMINUM CYMINUM (CUMIN) SEED OIL	Cumin oil	84775519	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.40 % Category 2) 0.40 % Category 3) 0.40 % Category 4) 0.40 % Category 5A) 0.40 % Category 5B) 0.40 % Category 5C) 0.40 % Category 5D) 0.40 % Category 6) 0.40 % Category 7A) no restriction Category 7B) 0.40 % Category 8) 0.40 % Category 9) no restriction Category 10A) no restriction Category 10B) 0.40 % Category 11A) no restriction Category 11B) 0.40 % Category 12) no restriction	
CUMINUM CYMINUM SEED POWDER	CUMINUM CYMINUM SEED POWDER	84775519	The European Commission restricts this ingredient to a maximum concentration of 0.4% (as cumin oil) in leaveon products.	
CUPRESSUS SEMPERVIRENS	CUPRESSUS SEMPERVIRENS	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS	CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) CONE EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CUPRESSUS SEMPERVIRENS	CYPRESS EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS	CUPRESSUS SEMPERVIRENS BARK EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS	CUPRESSUS SEMPERVIRENS FRUIT EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS	CUPRESSUS SEMPERVIRENS SEED EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS	CUPRESSUS SEMPERVIRENS LEAF WATER	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) CONE EXTRACT	CUPRESSUS SEMPERVIRENS	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) CONE EXTRACT	CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) CONE EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) CONE EXTRACT	CYPRESS EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) CONE EXTRACT	CUPRESSUS SEMPERVIRENS FRUIT EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) CONE EXTRACT	CUPRESSUS SEMPERVIRENS SEED EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) OIL	CUPRESSUS SEMPERVIRENS (ITALIAN CYPRESS) OIL	8013863	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS BARK EXTRACT	CUPRESSUS SEMPERVIRENS BARK EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS FRUIT EXTRACT	CUPRESSUS SEMPERVIRENS FRUIT EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS LEAF WATER	CUPRESSUS SEMPERVIRENS LEAF WATER	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPRESSUS SEMPERVIRENS SEED EXTRACT	CUPRESSUS SEMPERVIRENS SEED EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CUPUASSUAMIDOPROPYL BETAINE	cupuassuamidopropyl betaine	657350942	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
Curry Red (Uncertified FD&C Red No. 40)	CURRY RED/RED 40/RED 40 LAKE	25956176	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Curry Red (Uncertified FD&C Red No. 40)	FD&C RED NO. 40	25956-17-6	This substance must contain <2ppm lead, <1ppm mercury, and <1ppm cadmium.	
Curry Red (Uncertified FD&C Red No. 40)	FD&C RED NO. 40	25956-17-6	This substance may not be exposed to oxidizing or reducing agents that could affect the integrity of the color additives or any other condition that may affect their integrity, in accordance with FDA regulations.	
Curry Red (Uncertified FD&C Red No. 40)	FD&C Red 40	25956176	Due to their link to carcinogenicity, this substance must contain less than 100 ppm total unsulfonated primary aromatic amines, including aniline, 6methoxymtoluidine, and 1naphthylamine.	x
CUTANEOUS LYSATE	Cutaneous Lysate		FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
CYAMOPSIS TETRAGONOLOB (GUAR) GUM	Cyamopsis tetragonoloba (guar) gum	9000-30-0	(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1% in leaveon products and 5% in rinseoff products.	
CYAMOPSIS TETRAGONOLOB (GUAR) GUM	Cyamopsis tetragonoloba	9000300	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
CYAMOPSIS TETRAGONOLOB (GUAR) GUM	CYAMOPSIS TETRAGONOLOB (GUAR) GUM	9000-30-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CYANOACRYLATE	Cyanoacrylate		Health Canada requires manufacturers of adhesives used in the area of the eye for the application of false eyelashes to submit the following information: Description of training method; Submission of all training materials; Description of measures taken by notifying company to limit the sale and access of the product to qualified and trained individuals. Required Warning: Health Canada requires the following warning text on the product package/label: 'WARNING. BONDS SKIN INSTANTLY. AVOID CONTACT WITH EYES, MOUTH AND SKIN. KEEP AWAY FROM CHILDREN'; 'Eyelid bonding: consult a physician.'; 'Skin bonding: soak and ease apart gently'; 'Not for use in the area of the eye.'	
CYCLAMEN ALDEHYDE	CYCLAMEN ALDEHYDE	103957	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.28% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
CYCLAMEN ALDEHYDE	CYCLAMEN ALDEHYDE	103957	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11% Category 2) 0.14% Category 3) 0.038% Category 4) 0.95% Category 5A) 0.45% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.025% Category 6) 0.076% Category 7A) 0.23% Category 7B) 0.23% Category 8) 0.025% Category 9) 0.23% Category 10A) 0.23% Category 10B) 0.72% Category 11A) 0.025% Category 11B) 0.025% Category 12) 16%; Cyclamen aldehyde should not contain more than 1.5% of Cyclamen alcohol.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CYCLODEXTRIN	CYCLODEXTRIN	7585-39-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CYCLODEXTRIN LAURATE	CYCLODEXTRIN LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Cyclohexanemethanol, 2,4-dimethyl-	Cyclohexanemethanol, 2,4dimethyl	68480159	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0013% Category 2) 0.39% Category 3) 0.0013% Category 4) 0.0013% Category 5A) 1.3% Category 5B) 0.0013% Category 5C) 0.0013% Category 5D) 0.00043% Category 6) 0.0013% Category 7A) 0.0013% Category 7B) 0.0013% Category 8) 0.00043% Category 9) 3.1% Category 10A) 3.1% Category 10B) 0.0013% Category 11A) 0.00043% Category 11B) 0.00043% Category 12) 0.0013%	
CYCLOPHENYLMETHICONE	CYCLOPHENYLMETHICONE	68037-54-7	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CYCLOTETRAGLUCOSE	CYCLOTETRAGLUCOSE	159640-28-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CYCLOVINYLMETHICONE	CYCLOVINYLMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
CYLINDROTHECA FUSIFORMIS EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CYPRESS EXTRACT	CYPRESS EXTRACT	84696071	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
CYSTEINE	CYSTEINE	4371-52-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CYSTEINE HCL	CYSTEINE HCL	32443-99-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CYSTINE	CYSTINE	56-89-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CYTOSEIRA AMENTACEA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CYTOSEIRA AMENTACEA/CAESPITOSA BRANCHYCARPA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CYTOSEIRA AMENTACEA/CAESPITOSA BRANCHYCARPA EXTRACT	CYTOSEIRA AMENTACEA/CAESPITOSA BRANCHYCARPA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
CYTOSEIRA TAMARISCIFOLIA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CYTOSEIRA TAMARISCIFOLIA EXTRACT	CYTOSEIRA TAMARISCIFOLIA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
CYTOSEIRA TAMARISCIFOLIA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
CYTOCHROME C	Cytochrome C	9007-43-6	FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
d-allo-OCIMENOL	DALLOOCIMENOL	126910	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
d-allo-OCIMENOL	Linalool; dLinalool; lLinalool	126910	The International Fragrance Association restricts the total peroxide content (in the final product) to a maximum concentration of 20 millimoles peroxides per liter.	
d-alpha-PINENE	DALPHAPINENE	7785708	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L	
d-Carvone	CARVONE	2244168	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.08% in lip products, 0.1% in deodorants/antiperspirants, 0.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.9% in mouthwashes, breath sprays, and toothpastes, 0.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
d-Carvone	CARVONE	2244168	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.20% Category 2) 0.060% Category 3) 0.020% Category 4) 0.59% Category 5A) 0.20% Category 5B) 0.039% Category 5C) 0.059% Category 5D) 0.013% Category 6) 0.66% Category 7A) 0.039% Category 7B) 0.039% Category 8) 0.013% Category 9) 0.18% Category 10A) 0.18% Category 10B) 0.43% Category 11A) 0.013% Category 11B) 0.013% Category 12) 17%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
d-DIHYDROGERANIOL	Citronellol	1117619	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
d-DIHYDROGERANIOL	Citronellol	1117619	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
D-GLUCO-D-MANNAN	D-GLUCO-D-MANNAN	11078-31-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
D-GLUCONIC ACID, ALUMINUM SALT (3:1)	Aluminum Compounds	60007-93-4	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
d-Limonene	dLimonene	5989275	The European Commission restricts this ingredient's peroxide content to less than 20 mmoles/L. Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
D-PSICOSE	D-PSICOSE	551-68-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
D&C Black No. 2 (CI 77266)	D&C Black No. 2	1333-86-4	The U.S. Food and Drug Administration restricts the lead, arsenic, mercury, polycyclic aromatic hydrocarbons, benzo[a]pyrene, and dibenz[a,h]anthracene contents of this ingredient to maximum concentrations of 10 ppm, 3 ppm, 1 ppm, 500 ppb, 5 ppb, and 5 ppb, respectively.	
D&C Black No. 2 (CI 77266)	Carbon black	1333-86-4	The European Commission restricts the nano version of this ingredient to a maximum concentration of 10%. Not to be used in applications that may lead to exposure of the end user's lungs by inhalation	
D&C Black No. 2 (CI 77266)	Carbon black	1333-86-4	The European Commission restricts the nano version of this ingredient to a maximum concentration of 10%. Additionally, the nano version of this ingredient may not be used in applications that may lead to exposure of the enduser's lungs by inhalation. The ingredient must also have: Purity > 97 %, with the following impurity profile: Ash content , < 0.15 %, total sulphur , < 0.65 %, total PAH , < 500 ppb and benzo(a)pyrene , < 5 ppb, dibenz(a,h)anthracene , < 5 ppb, total arsenic , < 3 ppm, total lead , < 10 ppm, and total mercury , < 1 ppm. The nano version of this ingredient must also have a particle size greater than or equal to 20 nm.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
D&C Black No. 2 (CI 77266)	Carbon black	1333864	This substance is not allowed in powder, spray or aerosol products because the International Agency for Research on Cancer lists this chemical as a Possible Human Carcinogen (Group 2B) and California Prop65 lists this chemical as known to cause cancer when in a respirable form.	
D&C Black No. 2 (CI 77266)	D&C Black No. 2 (CI 77266)	1333-86-4	Per COSING, the maximum concentration in RTU preparation is 10%. Not to be used in applications that may lead to exposure of the end user's lungs by inhalation. Only nanomaterials having the following characteristics are allowed: Purity > 97 %, with the following impurity profile: Ash content less than or equal to 0.15%, total sulphur less than or equal to 0.65%, total PAH less than or equal to 500 ppb and benzo(a)pyrene less than or equal to 5 ppb, dibenz(a,h)anthracene less than or equal to 5 ppb, total arsenic less than or equal to 3 ppm, total Pb less than or equal to 10 ppm, and total Hg less than or equal to 1 ppm; Primary particle size greater than or equal to 20 nm.	x
D&C Black No. 3 (CI 77267)	Color additives subject to batch certification	8021-99-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Black No. 3 (CI 77267)	D&C Black No. 3	8021-99-6	This substance is only FDA approved for use in eyeliner, eye shadow, mascara, and face powder.	
D&C Brown No. 1 (CI 20170)	D&C Brown No. 1	1320-07-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Brown No. 1 (CI 20170)	D&C Brown No. 1 (CI 20170)	1320-07-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C GREEN NO. 5 (CI 61570)	D&C Green No. 5	4403-90-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C GREEN NO. 5 (CI 61570)	D&C Green 5	4403-90-1	This substance must contain <0.1 ppm lead, <0.2 ppm arsenic, <0.2 ppm mercury, and may not contain detectable levels of 1,4diaminoanthraquinone.	
D&C Green No. 5 (CI 61570) Lake	D&C Green No. 5	4403-90-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Green No. 5 (CI 61570) Lake	D&C Green 5	4403-90-1	This substance must contain <0.1 ppm lead, <0.2 ppm arsenic, <0.2 ppm mercury, and may not contain detectable levels of 1,4diaminoanthraquinone.	
D&C Green No. 6 (CI 61565)	D&C Green 6	128-80-3	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Green No. 6 (CI 61565)	D&C Green No. 6 (CI 61565)	128-80-3	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Green No. 8 (CI 59040)	Trisodium 8hydroxypyrene1,3,6trisulphonate	6358-69-6	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
D&C Green No. 8 (CI 59040)	Color additives subject to batch certification	6358-69-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Green No. 8 (CI 59040)	D&C Green 8	6358-69-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Green No. 8 (CI 59040)	D&C Green No. 8	6358-69-6	The FDA requires this ingredients be used at less than 0.01%	
D&C Green No. 8 (CI 59040)	D&C Green No. 8 (CI 59040)	6358-69-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
D&C Orange No. 4 (CI 15510)	Color additives subject to batch certification	633-96-5	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Orange No. 4 (CI 15510)	D&C Orange No. 4	633-96-5	The European Commission prohibits use of this substance in eye products.	
D&C Orange No. 4 (CI 15510)	D&C Orange no 4	633-96-5	This substance must contain <0.06% 2naphthol and <0.12% sodium sulfanilate.	
D&C Orange No. 4 (CI 15510)	D&C Orange No. 4 (CI 15510)	633-96-5	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Orange No. 4 (CI 15510)	D&C Orange No. 4 (CI 15510)	633-96-5	Per COSING, prohibited for use in eye products.	x
D&C Orange No. 4 (CI 15510) Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Orange No. 4 (CI 15510) Lake	D&C Orange No. 4		The European Commission prohibits use of this substance in eye products.	
D&C Orange No. 4 (CI 15510) Lake	D&C Orange no 4		This substance must contain <0.06% 2naphthol and <0.12% sodium sulfanilate.	
D&C Orange No. 4 (CI 15510) Lake	D&C Orange No. 4 (CI 15510) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Orange No. 5 (CI 45370)	D&C Orange No. 5	596-03-2	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Orange No. 5 (CI 45370)	D&C Orange No. 5 (CI 45370)	596-03-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Orange No. 5 (CI 45370)	D&C Orange No. 5 (CI 45370)	596-03-2	Per COSING, this ingredient must contain < 1% 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid and < 2% 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid	x
D&C Orange No. 5 (CI 45370) Lake	D&C Orange No. 5		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Orange No. 5 (CI 45370) Lake	D&C Orange No. 5 (CI 45370) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Orange No. 5 (CI 45370) Zirconium Lake	D&C Orange No. 5		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Orange No. 5 (CI 45370) Zirconium Lake	D&C Orange No. 5 (CI 45370) Zirconium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 17 (CI 26100)	1(4(Phenylazo)phenylazo)2naphthol	85-86-9	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
D&C Red No. 17 (CI 26100)	Color additives subject to batch certification	85-86-9	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 17 (CI 26100)	D&C Red No. 17	85-86-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 17 (CI 26100)	D&C Red No. 17	85-86-9	The EU prohibits this substance in products applied to mucous membranes.	
D&C Red No. 17 (CI 26100)	D&C Red No. 17	85-86-9	This substance may not contain detectable levels of paraphenylenediamine (PPD; pphenylenediamine).	
D&C Red No. 17 (CI 26100)	D&C Red No. 17 (CI 26100)	85-86-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 17 (CI 26100)	D&C Red No. 17 (CI 26100)	85-86-9	Per COSING, this ingredient shall conform to the purity criteria: anilin less than or equal to 0.2%, 2-naphthol less than or equal to 0.2%, 4-aminoazobenzene less than or equal to 0.1%, 1-(phenylazo)-2-naphthol less than or equal to 3%, 1-[2-(phenylazo)phenylazo]-2-naphthalenol less than or equal to 2%. Prohibited for use in products applied on mucous membranes.	x

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D&C Red No. 17 (CI 26100) Calcium Lake	Color additives subject to batch certification	85-86-9	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 17 (CI 26100) Calcium Lake	D&C Red No. 17	85-86-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 17 (CI 26100) Calcium Lake	D&C Red No. 17	85-86-9	The EU prohibits this substance in products applied to mucous membranes.	
D&C Red No. 17 (CI 26100) Calcium Lake	D&C Red No. 17	85-86-9	This substance may not contain detectable levels of paraphenylenediamine (PPD; pphenylenediamine).	
D&C Red No. 17 (CI 26100) Calcium Lake	D&C Red No. 17 (CI 26100) Calcium Lake	85-86-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 30 (CI 73360)	Color additives subject to batch certification	2379-74-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 30 (CI 73360)	D&C Red No. 30	2379-74-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 30 (CI 73360)	D&C Red No. 30 (CI 73360)	2379-74-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 30 (CI 73360) Calcium Lake	Color additives subject to batch certification	2379-74-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 30 (CI 73360) Calcium Lake	D&C Red No. 30	2379-74-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 30 (CI 73360) Calcium Lake	D&C Red No. 30 (CI 73360) Calcium Lake	2379-74-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 30 (CI73360) Lake	Color additives subject to batch certification	2379-74-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 30 (CI73360) Lake	D&C Red No. 30	2379-74-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 30 (CI73360) Lake	D&C Red No. 30 (CI73360) Lake	2379-74-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 31 (CI 15800)	Calcium bis[3hydroxy4(phenylazo)2naphthoate]	6371-76-2	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
D&C Red No. 31 (CI 15800)	Color additives subject to batch certification	6371-76-2	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 31 (CI 15800)	D&C Red No. 31	6371-76-2	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 31 (CI 15800)	Brilliant Lake Red R	6371-76-2	This substance may not contain detectable levels of Sudan I (CI Solvent Yellow 14; 1phenylazo2naphthol).	
D&C Red No. 31 (CI 15800)	D&C Red No. 31 (CI 15800)	6371-76-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 31 (CI 15800)	D&C Red No. 31 (CI 15800)	6371-76-2	Per COSING, prohibited for use in products applied on mucous membranes.	x
D&C Red No. 31 (CI 15800) Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	

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D&C Red No. 31 (CI 15800) Lake	D&C Red No. 31		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 31 (CI 15800) Lake	Brilliant Lake Red R		This substance may not contain detectable levels of Sudan I (CI Solvent Yellow 14; 1phenylazo2naphthol).	
D&C Red No. 31 (CI 15800) Lake	D&C Red No. 31 (CI 15800) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 33 (CI 17200)	Color additives subject to batch certification	3567-66-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 33 (CI 17200)	D&C Red No. 33	3567-66-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 33 (CI 17200)	D&C Red No. 33	3567-66-6	This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
D&C Red No. 33 (CI 17200)	D&C Red No. 33	3567-66-6	This substance must contain <70 ppb 1,3diphenyltriazene, <10 ppm 4aniline, <175 ppb 4aminobiphenyl, and <0.5 ppm 2aminobiphenyl.	
D&C Red No. 33 (CI 17200)	D&C Red No. 33 (CI 17200)	3567-66-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 33 (CI 17200) Lake	Color additives subject to batch certification	3567-66-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 33 (CI 17200) Lake	D&C Red No. 33	3567-66-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 33 (CI 17200) Lake	D&C Red No. 33	3567-66-6	This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
D&C Red No. 33 (CI 17200) Lake	D&C Red No. 33	3567-66-6	This substance must contain <70 ppb 1,3diphenyltriazene, <10 ppm 4aniline, <175 ppb 4aminobiphenyl, and <0.5 ppm 2aminobiphenyl.	
D&C Red No. 33 (CI 17200) Lake	D&C Red No. 33 (CI 17200) Lake	3567-66-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 33 (CI 17200) Zirconium Lake	Color additives subject to batch certification	3567-66-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 33 (CI 17200) Zirconium Lake	D&C Red No. 33	3567-66-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 33 (CI 17200) Zirconium Lake	D&C Red No. 33	3567-66-6	This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
D&C Red No. 33 (CI 17200) Zirconium Lake	D&C Red No. 33	3567-66-6	This substance must contain <70 ppb 1,3diphenyltriazene, <10 ppm 4aniline, <175 ppb 4aminobiphenyl, and <0.5 ppm 2aminobiphenyl.	
D&C Red No. 33 (CI 17200) Zirconium Lake	D&C Red No. 33 (CI 17200) Zirconium Lake	3567-66-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 34 (CI 15880)	Color additives subject to batch certification	6417-83-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 34 (CI 15880)	D&C Red No. 34	6417-83-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 34 (CI 15880)	D&C Red No. 34 (CI 15880)	6417-83-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
D&C Red No. 34 (CI 15880) Calcium Lake	Color additives subject to batch certification	6417-83-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 34 (CI 15880) Calcium Lake	D&C Red No. 34	6417-83-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 34 (CI 15880) Calcium Lake	D&C Red No. 34 (CI 15880) Calcium Lake	6417-83-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 34 (CI 15880) Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 34 (CI 15880) Lake	D&C Red No. 34		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 34 (CI 15880) Lake	D&C Red No. 34 (CI 15880) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 36 (CI 12085)	PIGMENT RED 4	2814779	Health Canada restricts this ingredient to a maximum concentration of 3%.	
D&C Red No. 36 (CI 12085)	Color additives subject to batch certification	2814-77-9	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 36 (CI 12085)	D&C Red No. 36	2814-77-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 36 (CI 12085)	D&C Red No. 36	2814-77-9	This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
D&C Red No. 36 (CI 12085)	D&C Red No. 36 (CI 12085)	2814-77-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 36 (CI 12085)	D&C Red No. 36 (CI 12085)	2814-77-9	Per COSING, the maximum concentration in RTU preparation is 3%	x
D&C Red No. 36 (CI 12085) Barium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 36 (CI 12085) Barium Lake	D&C Red No. 36		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 36 (CI 12085) Barium Lake	D&C Red No. 36		This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
D&C Red No. 36 (CI 12085) Barium Lake	D&C Red No. 36 (CI 12085) Barium Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Red No. 36 (CI 12085) Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Red No. 36 (CI 12085) Lake	D&C Red No. 36		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Red No. 36 (CI 12085) Lake	D&C Red No. 36		This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
D&C Red No. 36 (CI 12085) Lake	D&C Red No. 36 (CI 12085) Lake		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Violet No. 2 (CI 60725)	Color additives subject to batch certification	81-48-1	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
D&C Violet No. 2 (CI 60725)	D&C Violet No. 2	81-48-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Violet No. 2 (CI 60725)	D&C Violet No. 2	81-48-1	This substance must contain <0.05% ptoluidine and <0.02% 1hydroxy9,10anthraquinone.	
D&C Violet No. 2 (CI 60725)	D&C Violet No. 2 (CI 60725)	81-48-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Yellow No. 10 (CI 47005)	Color additives subject to batch certification	8004-92-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Yellow No. 10 (CI 47005)	D&C Yellow No. 10	8004-92-0	This substance must contain <2ppm lead, <1ppm cadmium, <50ppm zinc, and <0.01% aniline.	
D&C Yellow No. 10 (CI 47005)	D&C Yellow No. 10 (CI 47005)	8004-92-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Yellow No. 10 (CI 47005)	D&C Yellow No. 10 (CI 47005)	8004-92-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 104)	x
D&C Yellow No. 10 (CI 47005) Lake	Color additives subject to batch certification	68814-04-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Yellow No. 10 (CI 47005) Lake	D&C Yellow No. 10	68814-04-0	This substance must contain <2ppm lead, <1ppm cadmium, <50ppm zinc, and <0.01% aniline.	
D&C Yellow No. 10 (CI 47005) Lake	D&C Yellow No. 10 (CI 47005) Lake	68814-04-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Yellow No. 11 (CI 47000)	1,3Isobenzofurandione, reaction products with methylquinoline and quinoline	8003-22-3	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
D&C Yellow No. 11 (CI 47000)	Color additives subject to batch certification	8003-22-3	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Yellow No. 11 (CI 47000)	D&C Yellow No. 11	8003-22-3	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Yellow No. 11 (CI 47000)	D&C Yellow No. 11	8003-22-3	The EU prohibits this substance in products applied to mucous membranes.	
D&C Yellow No. 11 (CI 47000)	D&C Yellow No. 11 (CI 47000)	8003-22-3	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
D&C Yellow No. 11 (CI 47000)	D&C Yellow No. 11 (CI 47000)	8003-22-3	Per COSING, prohibited for use in products applied on mucous membranes.	x
D&C Yellow No. 11 (CI 47000) Lake	Color additives subject to batch certification	1325-37-7	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
D&C Yellow No. 11 (CI 47000) Lake	D&C Yellow No. 11	1325-37-7	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
D&C Yellow No. 11 (CI 47000) Lake	D&C Yellow No. 11	1325-37-7	The EU prohibits this substance in products applied to mucous membranes.	
D&C Yellow No. 11 (CI 47000) Lake	D&C Yellow No. 11 (CI 47000) Lake	1325-37-7	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
DAWSONITE	Aluminum Compounds	12011-76-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DEA LAURYL SULFATE	DEA LAURYL SULFATE	143-00-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DEA PG-PROPYL PEG/PPG-18/21 DIMETHICONE	DEA PGPROPYL PEG/PPG18/21 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DEA-C12-13 ALKYL SULFATE	DEA-C12-13 ALKYL SULFATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DEA-C12-13 PARETH-3 SULFATE	DEA-C12-13 PARETH-3 SULFATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DEA-C12-15 ALKYL SULFATE	DEA-C12-15 ALKYL SULFATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DEA-CETEARETH-2 PHOSPHATE	DEACETEARETH2 PHOSPHATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-COCOAMPHODIPROPIONATE	DEA-COCOAMPHODIPROPIONATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DEA-DODECYLBENZENESULFONATE	DEADODECYLBENZENESULFONATE	26545-53-9	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
DEA-LAURETH SULFATE	DEALAURETH SULFATE	58855360	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-OLETH-10 PHOSPHATE	DEAOLETH5 PHOSPHATE	58855633	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-OLETH-10 PHOSPHATE	DEAOLETH20 PHOSPHATE	58855633	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-OLETH-10 PHOSPHATE	DEAOLETH3 PHOSPHATE	58855633	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-OLETH-10 PHOSPHATE	DEAOLETH10 PHOSPHATE	58855633	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-OLETH-20 PHOSPHATE	DEAOLETH20 PHOSPHATE	58855633	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DEA-OLETH-3 PHOSPHATE	DEAOLETH3 PHOSPHATE	58855633	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-OLETH-5 PHOSPHATE	DEAOLETH5 PHOSPHATE	58855633	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-PEG-4 LAURATE	DEAPEG4 LAURATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-POLYPERFLUOROETHOXYMETHOXY PEG-2 PHOSPHATE	DEAPOLYPERFLUOROETHOXYMET HOXY PEG2 PHOSPHATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEA-STEARATE	DEA-STEARATE	2717-16-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DEAD SEA MINERALS	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
DECANAMIDE, N,N-DIMETHYL-	DECANAMIDE, N,NDIMETHYL	14433762	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitrifree containers	
Decanol alkoxyate	Decanol Alkoxyate	166736-08-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECENE/BUTENE COPOLYMER	DECENE/BUTENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DECETH-10	DECETH10	26183528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-3	DECETH3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DECETH-4	DECETH4	5703946	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-4 PHOSPHATE	Deceth6 Phosphate	52019360	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-4 PHOSPHATE	Deceth4 Phosphate	52019360	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-5	DECETH8	26183528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-5	DECETH10	26183528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-5	DECETH5	26183528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-6	DECETH6	5168898	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-6 PHOSPHATE	Deceth6 Phosphate	52019360	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-7	DECETH7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-7 CARBOXYLIC ACID	Sodium Deceth2 Carboxylate	38815939	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DECETH-7 CARBOXYLIC ACID	Deceth7 Carboxylic Acid	38815939	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-7 GLUCOSIDE	Deceth7 Glucoside		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-8	DECETH8	26183528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-9	DECETH9		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECETH-9 PHOSPHATE	Deceth9 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DECYL BETAINE	DECYL BETAINE	2644-45-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DECYL GLUCOSIDE	Decyl Glucoside	54549-25-6	The CIR panel concluded this substance is safe as used up when formulated to be nonirritating up to a concentration of 33%.	x
DECYL GLUCOSIDE	Decyl Glucoside	54549-25-6	This substance must contain <500 ppm magnesium oxide, <1 % free fatty alcohol, and <3 % sulfate ash.	x
DECYLTETRADECETH-30	DECYLTETRADECETH30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DEHYDRO XANTHAN GUM	DEHYDRO XANTHAN GUM		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEHYDROACETATE	Dehydroacetic acid and dehydroacetate		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5%.	
DEHYDROACETIC ACID	DEHYDROACETIC ACID	520456	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
Dehydroacetic Acid	DEHYDROACETIC ACID	520456	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
DEHYDROACETIC ACID	Dehydroacetic acid and dehydroacetate	16807-48-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5%.	
DELTA TOCOPHEROLS	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
DENATONIUM BENZOATE	Denatonium benzoate	3734-33-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1/16 avoirdupois ounce per 100 gal alcohol.	

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DENATONIUM BENZOATE	Benzoate	3734-33-6	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
DEXTRAN	DEXTRAN	9004-54-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRAN HYDROXYPROPYLTRIMONIUM CHLORIDE	DEXTRAN HYDROXYPROPYLTRIMONIUM CHLORIDE	83855-79-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRAN SULFATE	DEXTRAN SULFATE	9042-14-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRIN	DEXTRIN	9004-53-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRIN BEHENATE	DEXTRIN BEHENATE	112444-74-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRIN LAURATE	DEXTRIN LAURATE	79748-56-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRIN MYRISTATE	DEXTRIN MYRISTATE	93792-77-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRIN PALMITATE	DEXTRIN PALMITATE	83271-10-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRIN PALMITATE/ETHYLHEXANOATE	DEXTRIN PALMITATE/ETHYLHEXANOATE	183387-52-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DEXTRIN STEARATE	DEXTRIN STEARATE	37307-33-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DI-C12-13 ALKYL MALATE	DI-C12-13 ALKYL MALATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DI-C12-15 ALKYL ADIPATE	DI-C12-15 ALKYL ADIPATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DI-C12-15 ALKYL FUMARATE	DIC1215 ALKYL FUMARATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
DI-C16-18 ALKYL DIMER DILINOLEATE	DI-C16-18 ALKYL DIMER DILINOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DI-C20-40 ALKYL DIMER DILINOLEATE	DI-C20-40 ALKYL DIMER DILINOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	DIHEMA TRIMETHYLHEXYL DICARBAMATE	41137-60-4	The Cosmetic Ingredient Review restricts the use of this ingredient to nail enhancement products when skin contact is avoided. Additionally, products containing this ingredient should be accompanied with directions to avoid skin contact.	
DI-PEG-2 SOYAMINE IPDI	DiPeg2 Soyamine Ipdi	183681063	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DI-PPG-3 CETETH-4 ADIPATE	DiPpg3 Ceteth4 Adipate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DI-TEA-COCAMIDE DIACETATE	DITEACOCAMIDE DIACETATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DI-TEA-OLEAMIDO PEG-2 SULFOSUCCINATE	DITEAOLEAMIDO PEG2 SULFOSUCCINATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DI-TEA-OLEAMIDO PEG-2 SULFOSUCCINATE	DITEAOLEAMIDO PEG2 SULFOSUCCINATE	85480940	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DI-TEA-PALMITOYL ASPARTATE	DITEAPALMITOYL ASPARTATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIAMINOPYRIMIDINE OXIDE	DIAMINOPYRIMIDINE OXIDE	74638769	The European Commission restricts this ingredient to a maximum concentration of 1.5% in hair products.	
DIAMMONIUM HEXACHLOROPLATINATE	Ammonium Hexachloroplatinate (IV)	16919587	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DIAMMONIUM OLEAMIDO PEG-2 SULFOSUCCINATE	Diammonium Oleamido Peg2 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIATOMACEOUS EARTH	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
DIAZOLIDINYL UREA	Diazolidinyl urea	78491028	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
DIAZOLIDINYL UREA	N(Hydroxymethyl)N(dihydroxymethyl,3dioxo2,5imidazolidinyl4)N'(hydroxymethyl)urea	78491028	(*) The European Commission restricts this ingredient to a maximum concentration of 0.50%	
DIAZOLIDINYL UREA	DIAZOLIDINYL UREA	78491-02-8	Per COSING, the maximum concentration in RTU preparation 0.50%.	x

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DIBEHENYL METHYLAMINE	DIBEHENYL METHYLAMINE	61372916	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIBENZYL ETHER	DIBENZYL ETHER	103504	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.07% in lip products, 0.08% in deodorants/antiperspirants, 0.35% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.04% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.55% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.67% in mouthwashes, breath sprays, and toothpastes, 0.17% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
DIBENZYL ETHER	DIBENZYL ETHER	103504	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.000040 % Category 2) 0.0028 % Category 3) 0.00020 % Category 4) 0.012 % Category 5A) 0.0023 % Category 5B) 0.00024 % Category 5C) 0.00032 % Category 5D) 0.000081 % Category 6) 0.0023 % Category 7A) 0.00093 % Category 7B) 0.00093 % Category 8) 0.000081 % Category 9) 0.0037 % Category 10A) 0.0037 % Category 10B) 0.0037 % Category 11A) 0.000081 % Category 11B) 0.000081 % Category 12) 0.24 %	
DIBROMOHEXAMIDINE ISETHIONATE	3,3'Dibromo4,4'hexamethylenedioxy dibenzamidine and its salts (including isethionate)	93856838	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
DIBUTYL ADIPATE	Dibutyl adipate	105-99-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
DIBUTYL OXALATE	DIBUTYL OXALATE	2050604	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIBUTYL PHTHALATE	Dibutyl phthalate	84742	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
DIBUTYL SEBACATE	DIBUTYL SEBACATE	109-43-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIBUTYLOCTYL MALATE	DIBUTYLOCTYL MALATE	399551-19-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DICAPRYL SODIUM SULFOSUCCINATE	DICAPRYL SODIUM SULFOSUCCINATE	1639-66-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DICAPRYLATE/ DICAPRATE PEG-7 GLYCERYL COCOATE	Dicaprylate/ Dicaprate Peg7 Glyceryl Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DICAPRYLYL CARBONATE	DICAPRYLYL CARBONATE	1680315	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 34.5%.	
DICARBONIC ACID, DIMETHYL ESTER	DICARBONIC ACID, DIMETHYL ESTER	4525-33-1	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
DICETEARETH-10 PHOSPHATE	Diceteareth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DICETEARYL DIMER DILINOLEATE	DICETEARYL DIMER DILINOLEATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
DICHLOROBENZYL ALCOHOL	2,4Dichlorobenzyl alcohol	1777828	(*) The European Commission restricts this ingredient to a maximum concentration of 0.15%	
DICHLOROMETHANE	Dichloromethane	75092	The European Commission restricts this ingredient to a maximum concentration of 35% (when mixed with 1,1,1trichloroethane, total concentration must not exceed 35%). Additionally, the dichloromethane impurity cannot exceed 0.2%.	
DICHLOROMETHANE	METHYLENECHLORIDE	75092	Health Canada restricts the use of this ingredient to nonaerosol products.	
DICHLOROPHENE	Dichlorophene	97234	The European Commission restricts this ingredient to a maximum concentration of 0.5%. Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains Dichlorophen'	
DICHLOROPHENE	Dichlorophene	97234	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: 4chloro6,6bis(5chloro2hydroxybenzyl)phenol	
DICHROMIC ACID, ZINC SALT (1:1)	Chromium Compounds	14018-95-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DICHRONIUM TRIS(CHROMATE)	Chromium Compounds	24613-89-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DICOCODIMETHYLAMINE DILINOLEATE	DICOCODIMETHYLAMINE DILINOLEATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DICTYOPTERIS MEMBRANACEA (ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
DICTYOPTERIS POLYPODIOIDES EXTRACT	DICTYOPTERIS POLYPODIOIDES EXTRACT		The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 0.01%.	
DICTYOPTERIS POLYPODIOIDES EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
DICTYOPTERIS POLYPODIOIDES EXTRACT	DICTYOPTERIS POLYPODIOIDES EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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Didecyldimethylammonium chloride	Didecyldimethylbenzylammonium Chloride	7173515	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
Didecyldimethylammonium chloride	Didecyl Dimethyl Ammonium Chloride	7173515	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DIERUCIC ACID	DIERUCIC ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
DIETHANOLAMINE	Diethanolamine	111422	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
DIETHANOLAMINE	Diethanolamine	111-42-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.3%. The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
DIETHANOLAMINE	Diethanolamine	111422	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DIETHYL CAPRYLAMIDE	DIETHYL CAPRYLAMIDE	996974	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
DIETHYL MALONATE	DIETHYL MALONATE	105-53-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.02%.	
DIETHYL OXALATE	DIETHYL OXALATE	95921	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIETHYL PHTHALATE	Diethyl phthalate	84662	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
DIETHYL SEBACATE	DIETHYL SEBACATE	110-40-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1.5%.	
DIETHYLAMINE LAURETH SULFATE	DIETHYLAMINE LAURETH SULFATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIETHYLAMINOETHYL PEG-4 COCOATE	Diethylaminoethyl Peg4 Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIETHYLAMINOETHYL PEG-4 LAURATE	Diethylaminoethyl Peg4 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DIETHYLAMINOETHYL PEG-5 COCOATE	Diethylaminoethyl Peg5 Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIETHYLAMINOETHYL PEG-5 LAURATE	Diethylaminoethyl Peg5 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIETHYLENE GLYCOL	DIETHYLENEGLYCOL	111466	Health Canada restricts the use of this ingredient to nonoral products and rinseoff products. Additionally, Health Canada requires manufacturers of oral and leaveon products containing glycerin to ensure the raw material used is within the specifications of an accepted pharmacopoeia with respect to diethylene glycol (DEG) impurities.	
DIETHYLENE GLYCOL	Diethylene glycol	111-46-6	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in toothpaste.	
DIETHYLENE GLYCOL DIBENZOATE	Benzoate	120-55-8	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
DIETHYLENE GLYCOL DIETHYLHEXANOATE/ DIISONONANOATE	DIETHYLENE GLYCOL DIETHYLHEXANOATE/ DIISONONANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIETHYLENE GLYCOL DIISONONANOATE	DIETHYLENE GLYCOL DIISONONANOATE	106-01-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 19%.	
DIETHYLENE GLYCOL PROPYL ETHER	Diethylene Glycol Propyl Ether	29911-27-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIETHYLENE GLYCOL/DMAP ACRYLAMIDE/PEG-180/HDI COPOLYMER	DIETHYLENE GLYCOL/DMAP ACRYLAMIDE/PEG180/HDI COPOLYMER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIETHYLENE GLYCOL/DMAP ACRYLAMIDE/PEG-180/HDI COPOLYMER	DIETHYLENE GLYCOL/DMAP ACRYLAMIDE/PEG180/HDI COPOLYMER		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
DIETHYLENE GLYCOL/DMAP ACRYLAMIDE/PEG-180/HDI COPOLYMER	DIETHYLENE GLYCOL/DMAP ACRYLAMIDE/PEG-180/HDI COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIETHYLHEXYL ADIPATE	Diethylhexyl Adipate	103-23-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
DIETHYLHEXYL ADIPATE	DIETHYLHEXYLADIPATE	103231	Health Canada restricts this ingredient to a maximum concentration of 6.0% in leaveon body moisturizers.	
DIETHYLHEXYL BUTAMIDO TRIAZONE	Benzoic acid	65850	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
DIETHYLHEXYL CARBONATE	DIETHYLHEXYL CARBONATE	14858-73-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DIETHYLHEXYL DIMER DILINOLEATE	dioctyl dimer dilinoleate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
DIETHYLHEXYL DIMER DILINOLEATE	DIETHYLHEXYL DIMER DILINOLEATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	

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DIETHYLHEXYLSUCCINATE	DIETHYLHEXYL SUCCINATE	2915-57-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
DIETHYLPENTANEDIOL DINEOPENTANOATE	DIETHYLPENTANEDIOL DINEOPENTANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIHEPTYLUNDECYL ADIPATE	DIHEPTYLUNDECYL ADIPATE	155613-91-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
DIHEXYL ADIPATE	DIHEXYL ADIPATE	110-33-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
DIHEXYLDECYL SEBACATE	DIHEXYLDECYL SEBACATE	359073-59-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
DIHYDROCHOLETH 30	Dihydrocholeth 30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIHYDROCHOLETH-15	Dihydrocholeth15		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIHYDROCHOLETH-20	Dihydrocholeth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIHYDROCOUMARIN	DIHYDROCOUMARIN	119846	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.72% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
DIHYDROCOUMARIN	DIHYDROCOUMARIN	119846	Canada limits the use of this chemical in leaveon products with maximum concentration of 0.035% and rinseoff products with maximum concentration of 3.5%	
DIHYDROCOUMARIN	DIHYDROCOUMARIN	119846	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077 % Category 2) 0.023 % Category 3) 0.46 % Category 4) 0.43 % Category 5A) 0.11 % Category 5B) 0.11 % Category 5C) 0.11 % Category 5D) 0.030 % Category 6) 0.25 % Category 7A) 0.88 % Category 7B) 0.88 % Category 8) 0.030 % Category 9) 0.84 % Category 10A) 0.84 % Category 10B) 3.0 % Category 11A) 0.030 % Category 11B) 0.030 % Category 12) No Restriction	

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DIHYDROEUGENOL	2METHOXY4PROPYLPHENOL	2785877	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.13 % Category 2) 0.039 % Category 3) 0.78 % Category 4) 0.73 % Category 5A) 0.19 % Category 5B) 0.19 % Category 5C) 0.19 % Category 5D) 0.062 % Category 6) 0.43 % Category 7A) 1.5 % Category 7B) 1.5 % Category 8) 0.062 % Category 9) 1.4 % Category 10A) 1.4 % Category 10B) 5.1 % Category 11A) 0.062 % Category 11B) 0.062 % Category 12) No Restriction	
DIHYDROGENATED TALLOW BENZYLMONIUM HECTORITE	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
DIHYDROGENATED TALLOW METHYLAMINE	DIHYDROGENATED TALLOW METHYLAMINE	61788634	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIHYDROXYACETONE	DIHYDROXYACETONE	96-26-4	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
DIHYDROXYACETONE	DIHYDROXYACETONE	96-26-4	Per the U.S. FDA., dihydroxyacetone shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Volatile matter (at 34.6 °C. for 3 hours at a pressure of not more than 30 mm. mercury), not more than 0.5 percent. Residue on ignition, not more than 0.4 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Iron (as Fe), not more than 25 parts per million. 1,3-dihydroxy-2-propanone, not less than 98 percent.	x
DIHYDROXYALUMINUM AMINOACETATE	Aluminum Compounds	13682-92-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DIHYDROXYETHYL TALLOW GLYCINATE	Dihydroxyethyl Tallow Glycinate	61791-25-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIHYDROXYINDOLE	DIHYDROXYINDOLE	3131520	The European Commission restricts this ingredient to a maximum concentration of 0.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
DIHYDROXYINDOLINE	DIHYDROXYINDOLINE	29539035	The European Commission restricts this ingredient to a maximum concentration of 2.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Can cause severe allergic reactions.'; 'Do not colour your hair if: — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	

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DIHYDROXYINDOLINE HBR	DIHYDROXYINDOLINE HBR	138937287	The European Commission restricts this ingredient to a maximum concentration of 2.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Can cause severe allergic reactions.'; 'Do not colour your hair if: — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
DIHYDROXYPROPYL PEG-10 STEARAMMONIUM CHLORIDE	Dihydroxypropyl Peg10 Stearammonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIHYDROXYPROPYL PEG-5 LINOLEAMMONIUM CHLORIDE	Dihydroxypropyl Peg 5 Linoleammonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIISOAMYL MALATE	DIISOAMYL MALATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIISOBUTYL ADIPATE	DIISOBUTYL ADIPATE	141-04-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
DIISOBUTYL OXALATE	DIISOBUTYL OXALATE	2050615	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIISOCETYL DODECANEDIOATE	DIISOCETYL DODECANEDIOATE	131252-83-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
DIISOPROPANOLAMINE	DIISOPROPANOLAMINE	110-97-4	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form (do not contain nitrosating agents).	
DIISOPROPYL ADIPATE	DIISOPROPYL ADIPATE	6938-94-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
DIISOPROPYL OXALATE	DIISOPROPYL OXALATE	615816	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIISOPROPYL SEBACATE	DIISOPROPYL SEBACATE	7491-02-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
DIISOPROPYLAMINE	diisopropylamine	108189	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form (do not contain nitrosating agents).	
DIISOSTEAROYL TRIMETHYLOLPROPANE SILOXY SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
DIISOSTEARYL ADIPATE	DIISOSTEARYL ADIPATE	62479-36-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
DIISOSTEARYL DIMER DILINOLEATE	DIISOSTEARYL DIMER DILINOLEATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	

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DIISOSTEARYL FUMARATE	DIISOSTEARYL FUMARATE	112385-09-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 20%.	
DIISOSTEARYL MALATE	DIISOSTEARYL MALATE	81230-05-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIISOSTEARYL SEBACATE	DIISOSTEARYL SEBACATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
DILAURETH-10 PHOSPHATE	Dilaureth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DILAURETH-4 DIMONIUM CHLORIDE	Dilaureth4 Dimonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DILAURETH-4 PHOSPHATE	Dilaureth4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DILAURETH-7 CITRATE	Dilaureth7 Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DILAULOYL TRIMETHYLOLPROPANE SILOXY SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
DILINOLEAMIDOPROPYL DIMETHYLAMINE	Dilinoeamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
DILINOLEAMIDOPROPYL DIMETHYLAMINE DIMETHICONE PEG-7 PHOSPHATE	Dilinoeamidopropyl Dimethylamine Dimethicone Peg7 Phosphate	138698347	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DILINOLEIC ACID	DILINOLEIC ACID	6144-28-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
DILITHIUM OXALATE	DILITHIUM OXALATE	553913	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIMETHICONE	Dimethicone	9006-65-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 24% in makeup products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHICONE	DIMETHICONE	9006-65-9	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL	DIMETHICONE BISAMINO HYDROXYPROPYL COPOLYOL		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE COPOLYMER	DIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE COPOLYOL	DIMETHICONE COPOLYOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
DIMETHICONE COPOLYOL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
DIMETHICONE COPOLYOL BENZOATE	DIMETHICONE COPOLYOL BENZOATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE COPOLYOL EICOSANATE	DIMETHICONE COPOLYOL EICOSANATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE COPOLYOL MEADOWFOAMATE	DIMETHICONE COPOLYOL MEADOWFOAMATE	157479-51-1	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE COPOLYOL PHOSPHATE	DIMETHICONE PEG10 PHOSPHATE	132207319	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE COPOLYOL PHOSPHATE	DIMETHICONE PEG7 PHOSPHATE	132207319	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE COPOLYOL PHOSPHATE	DIMETHICONE COPOLYOL PHOSPHATE	132207-31-9	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE CROSSPOLYMER	DIMETHICONE CROSSPOLYMER	213629-14-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 25%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHICONE CROSSPOLYMER	DIMETHICONE CROSSPOLYMER	213629-14-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE CROSSPOLYMER-3	DIMETHICONE CROSSPOLYMER-3		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE CROSSPOLYMER-3	DIMETHICONE CROSSPOLYMER-3		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE PEG 10/ 15 CROSSPOLYMER	Dimethicone Peg 10/ 15 Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG 10/ 15 CROSSPOLYMER	DIMETHICONE PEG 10/ 15 CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG 10/ 15 CROSSPOLYMER	DIMETHICONE PEG 10/ 15 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE PEG-10 PHOSPHATE	DIMETHICONE PEG10 PHOSPHATE	132207319	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-15 ACETATE	Dimethicone Peg15 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 AVOCADOATE	Dimethicone Peg7 Avocadoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 AVOCADOATE	DIMETHICONE PEG-7 AVOCADOATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-7 COCOATE	Dimethicone Peg7 Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DIMETHICONE PEG-7 COCOATE	DIMETHICONE PEG-7 COCOATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-7 ISOSTEARATE	Dimethicone Peg7 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 ISOSTEARATE	DIMETHICONE PEG-7 ISOSTEARATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-7 LACTATE	Dimethicone Peg7 Lactate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 OCTYLDODECYL CITRATE	Dimethicone Peg7 Octyldodecyl Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 OLIVATE	Dimethicone Peg7 Oliviate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 PHOSPHATE	DIMETHICONE PEG7 PHOSPHATE	132207319	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 PHOSPHATE	DIMETHICONE PEG7 PHOSPHATE	132207-31-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
DIMETHICONE PEG-7 PHOSPHATE	DIMETHICONE PEG-7 PHOSPHATE	132207-31-9	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-7 PHTHALATE	Dimethicone Peg7 Phthalate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 SUCCINATE	Dimethicone Peg7 Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHICONE PEG-7 SULFATE	Dimethicone Peg7 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-7 UNDECYLENATE	Dimethicone Peg7 Undecylenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 ADIPATE	DIMETHICONE PEG8 ADIPATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 AVOCADOATE	Dimethicone Peg8 Avocadoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 BEESWAX	Dimethicone Peg8 Beeswax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 BEESWAX	DIMETHICONE PEG-8 BEESWAX		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-8 BENZOATE	DIMETHICONE PEG8 BENZOATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 BENZOATE	DIMETHICONE PEG8 BENZOATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
DIMETHICONE PEG-8 BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
DIMETHICONE PEG-8 BENZOATE	DIMETHICONE PEG-8 BENZOATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-8 BORAGEATE	Dimethicone Peg8 Borageate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHICONE PEG-8 ISOSTEARATE	Dimethicone Peg8 Isostearate	133448165	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 LANOLATE	Dimethicone Peg8 Lanolate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 LANOLATE	DIMETHICONE PEG-8 LANOLATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-8 LAURATE	Dimethicone Peg8 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 LAURATE	DIMETHICONE PEG-8 LAURATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-8 MEADOWFOAMATE	Dimethicone Peg8 Meadowfoamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 MEADOWFOAMATE	DIMETHICONE PEG-8 MEADOWFOAMATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-8 OLIVATE	Dimethicone Peg8 Olivat		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 PHOSPHATE	Dimethicone Peg8 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 PHTHALATE	Dimethicone Peg8 Phthalate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHICONE PEG-8 POLYACRYLATE	Dimethicone Peg8 Polyacrylate	217958640	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG-8 POLYACRYLATE	DIMETHICONE PEG-8 POLYACRYLATE	217958-64-0	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG-8 SUCCINATE	Dimethicone Peg8 Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG/PPG-12/4 PHOSPHATE	DIMETHICONE PEG/PPG12/4 PHOSPHATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG/PPG-12/4 PHOSPHATE	DIMETHICONE PEG/PPG-12/4 PHOSPHATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG/PPG-12/4 PHOSPHATE	DIMETHICONE PEG/PPG-12/4 PHOSPHATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG/PPG-20/23 BENZOATE	Dimethicone Peg/ppg20/23 Benzoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG/PPG-20/23 BENZOATE	DIMETHICONE PEG/PPG-20/23 BENZOATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE PEG/PPG-20/23 BENZOATE	DIMETHICONE PEG/PPG-20/23 BENZOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE PEG/PPG-7/4 PHOSPHATE	DIMETHICONE PEG/PPG7/4 PHOSPHATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE PEG/PPG-7/4 PHOSPHATE	DIMETHICONE PEG/PPG-7/4 PHOSPHATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHICONE PROPYL PG-BETAINE	DIMETHICONE PROPYL PG-BETAINE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE SILYLATE	DIMETHICONE SILYLATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/ CYCLOMETHICONE COPOLYMER	DIMETHICONE/ CYCLOMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/ METHICONE COPOLYMER	DIMETHICONE/ METHICONE COPOLYMER	68037-59-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/ PHENYL VINYL DIMETHICONE CROSSPOLYMER	DIMETHICONE/ PHENYL VINYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/ PHENYL VINYL DIMETHICONE CROSSPOLYMER	DIMETHICONE/ PHENYL VINYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE/ SILSESQUIOXANE COPOLYMER	DIMETHICONE/ SILSESQUIOXANE COPOLYMER	68440-84-6	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/ SILSESQUIOXANE COPOLYMER	DIMETHICONE/ SILSESQUIOXANE COPOLYMER	68440-84-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER	DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER	DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE/BIS ISOBUTYL PPG-20 CROSSPOLYMER	DIMETHICONE/BIS ISOBUTYL PPG-20 CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/BIS ISOBUTYL PPG-20 CROSSPOLYMER	DIMETHICONE/BIS ISOBUTYL PPG-20 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHICONE/DIVINYLDIMETHICONE/SILSESQUIOXANE CROSSPOLYMER	DIMETHICONE/DIVINYLDIMETHICONE/SILSESQUIOXANE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/DIVINYLDIMETHICONE/SILSESQUIOXANE CROSSPOLYMER	DIMETHICONE/DIVINYLDIMETHICONE/SILSESQUIOXANE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE/MERCAPTOPROPYL METHICONE COPOLYMER	DIMETHICONE/MERCAPTOPROPYL METHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/MERCAPTOPROPYL METHICONE COPOLYMER	DIMETHICONE/MERCAPTOPROPYL METHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/PEG-10 CROSSPOLYMER	Dimethicone/peg10 Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE/PEG-10 CROSSPOLYMER	DIMETHICONE/PEG-10 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE/PEG-15 CROSSPOLYMER	Dimethicone/peg15 Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIMETHICONE/PEG-15 CROSSPOLYMER	DIMETHICONE/PEG-15 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER	DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER	DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Dimethicone/Silica Antifoam	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
Dimethicone/Silica/PEG Distearate Antifoam	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Dimethicone/Silica/PEG Distearate Antifoam	Dimethicone/Silica/PEG Distearate Antifoam		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/TITANATE CROSSPOLYMER	DIMETHICONE/TITANATE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONE/VINYLTRIMETHYLSILOXYSILICATE CROSSPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
DIMETHICONE/VINYLTRIMETHYLSILOXYSILICATE CROSSPOLYMER	DIMETHICONE/VINYLTRIMETHYLSILOXYSILICATE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIMETHICONE/VINYLTRIMETHYLSILOXYSILICATE CROSSPOLYMER	DIMETHICONE/VINYLTRIMETHYLSILOXYSILICATE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONOL	DIMETHICONOL	31692-79-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 36%	
DIMETHICONOL BEESWAX	DIMETHICONOL BEESWAX		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.9%.	
DIMETHICONOL BEHENATE	DIMETHICONOL BEHENATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
DIMETHICONOL BORAGEATE	DIMETHICONOL BORAGEATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
DIMETHICONOL CYSTEINE	DIMETHICONOL CYSTEINE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.07%.	
DIMETHICONOL MEADOWFOAMATE	DIMETHICONOL MEADOWFOAMATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
DIMETHICONOL PANTHENOL	DIMETHICONOL PANTHENOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.07%.	
DIMETHICONOL/SILSESQUIOXANE COPOLYMER	DIMETHICONOLSILSESQUIOXANE COPOLYMER	68554-67-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
DIMETHICONOL/METHYLSILANOL/SILICATE CROSSPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
DIMETHICONOL/METHYLSILANOL/SILICATE CROSSPOLYMER	DIMETHICONOL/METHYLSILANOL/SILICATE CROSSPOLYMER	69856-02-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHICONOL/STEARYL METHICONE/PHENYL TRIMETHICONE COPOLYMER	DIMETHICONOL/STEARYL METHICONE/PHENYL TRIMETHICONE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIMETHYL ADIPATE	DIMETHYL ADIPATE	627-93-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHYL BEHENAMINE	DIMETHYL BEHENAMINE	21542961	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL CARBONATE	DIMETHYL CARBONATE	616-38-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DIMETHYL COCAMINE	DIMETHYL COCAMINE	61788930	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL DECADIENAL	5,9Dimethyl4,8decadienal	762265	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.074% Category 2) 0.16% Category 3) 0.074% Category 4) 3.0% Category 5A) 0.76% Category 5B) 0.15% Category 5C) 0.074% Category 5D) 0.025% Category 6) 0.074% Category 7A) 1.1% Category 7B) 1.1% Category 8) 0.025% Category 9) 2.5% Category 10A) 2.5% Category 10B) 4.6% Category 11A) 0.025% Category 11B) 0.025% Category 12) No Restriction	
DIMETHYL GLUTARATE	DIMETHYL GLUTARATE	1119-40-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
DIMETHYL HYDROGENATED TALLOWAMINE	DIMETHYL HYDROGENATED TALLOWAMINE	61788952	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL LAURAMINE	DIMETHYL LAURAMINE	112185	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL LAURAMINE DIMER DILINOLEATE	DIMETHYL LAURAMINE DIMER DILINOLEATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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DIMETHYL LAURAMINE ISOSTEARATE	DIMETHYL LAURAMINE ISOSTEARATE	70729872	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL LAURAMINE OLEATE	DIMETHYL LAURAMINE OLEATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL MEA	DIMETHYL MEA	108010	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL MEA	Dimethylethanolamine	108010	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
DIMETHYL MEA	N,NDimethylethanolamine	108010	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
DIMETHYL MEA	Dimethylethanolamine	108010	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DIMETHYL MYRISTAMINE	DIMETHYL MYRISTAMINE	112754	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL OXALATE	DIMETHYL OXALATE	553902	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIMETHYL OXAZOLIDINE	4,4Dimethyl1,3oxazolidine	51200874	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
DIMETHYL PALMITAMINE	DIMETHYL PALMITAMINE	112696	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL PHTHALATE	Dimethyl phthalate	131113	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	

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DIMETHYL SOYAMINE	DIMETHYL SOYAMINE	61788918	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL STEARAMINE	DIMETHYL STEARAMINE	124287	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL STEARAMINE	DIMETHYL STEARAMINE	124-28-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4% in nonhair coloring products.	
DIMETHYL TALLOWAMINE	DIMETHYL TALLOWAMINE	68814697	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	27939602	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	27939602	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.45% Category 2) 0.14% Category 3) 2.7% Category 4) 2.5% Category 5A) 0.64% Category 5B) 0.64% Category 5C) 0.64% Category 5D) 0.64% Category 6) 1.5% Category 7A) 5.2% Category 7B) 5.2% Category 8) 0.27% Category 9) 4.9% Category 10A) 18% Category 10B) 18% Category 11A) 9.8% Category 11B) 9.8% Category 12) No Restriction	
DIMETHYLACRYLAMIDE/SODIUM ACRYLOYLDIMETHYL TAURATE CROSSPOLYMER	Dimethylacrylamide/Sodium Acryloyldimethyltaurate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHYLCYCLOHEXENYL 3-BUTENYL KETONE	1(5,5Dimethylcyclohexenyl)pent-4-en-1-one	56973854	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.07% in lip products, 0.09% in deodorants/antiperspirants, 0.38% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.13% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.81% in mouthwashes, breath sprays, and toothpastes, 0.19% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
DIMETHYLCYCLOHEXENYL 3-BUTENYL KETONE	1(5,5Dimethylcyclohexenyl)pent-4-en-1-one	56973854	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.19 % Category 2) 0.057 % Category 3) 0.18 % Category 4) 1.1 % Category 5A) 0.27 % Category 5B) 0.27 % Category 5C) 0.27 % Category 5D) 0.091 % Category 6) 0.54 % Category 7A) 0.54 % Category 7B) 0.54 % Category 8) 0.091 % Category 9) 1.4 % Category 10A) 1.4 % Category 10B) 3.4 % Category 11A) 0.091 % Category 11B) 0.091 % Category 12) No Restriction	
DIMETHYLDIOCTYLAMMONIUM HECTORITE	CLAYS AND MINERALS	97280-96-1	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
DIMETHYLHYDROXY FURANONE	4HYDROXY-2,5-DIMETHYL-3(2H)-FURANONE	3658773	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.045 % Category 2) 0.014 % Category 3) 0.27 % Category 4) 0.25 % Category 5A) 0.064 % Category 5B) 0.064 % Category 5C) 0.064 % Category 5D) 0.021 % Category 6) 0.15 % Category 7A) 0.52 % Category 7B) 0.52 % Category 8) 0.021 % Category 9) 0.49 % Category 10A) 0.49 % Category 10B) 1.8 % Category 11A) 0.021 % Category 11B) 0.021 % Category 12) No Restriction	
DIMETHYLOL ETHYLENE THIOUREA	DIMETHYLOL ETHYLENE THIOUREA	15534959	The European Commission restricts this ingredient to a maximum concentration of 2% in hair products (cannot be used in aerosol sprays) and 2% in nail products (pH has to be less than 4). Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains Dimethylol ethylene thiourea'	
DIMETHYLTETRAHYDRO BENZALDEHYDE	Dimethylcyclohex-3-en-1-carbaldehyde (mixed isomers)	68737611	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.17% in lip products, 0.22% in deodorants/antiperspirants, 0.89% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.45% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIMETHYLTETRAHYDRO BENZALDEHYDE	Dimethylcyclohex3enelcarbaldehyde (mixed isomers)	68737611	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.45% Category 2) 0.14% Category 3) 2.7% Category 4) 2.5% Category 5A) 0.64% Category 5B) 0.64% Category 5C) 0.64% Category 5D) 0.64% Category 6) 1.5% Category 7A) 5.2% Category 7B) 5.2% Category 8) 0.27% Category 9) 4.9% Category 10A) 18% Category 10B) 18% Category 11A) 9.8% Category 11B) 9.8% Category 12) No Restriction	
DIMYRISTYL PHOSPHATE	DIMYRISTYL PHOSPHATE	6640-03-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DINICKEL TRIOXIDE	Nickel Compounds	1314-06-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DINONOXYNOL-4 PHOSPHATE	Dinonoxynol4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DINONOXYNOL-9 CITRATE	Dinonoxynol9 Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIOCTADECANYL DIDECYLTETRADECANOATE	DIOCTADECANYL DIDECYLTETRADECANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIOCTADECANYL DITETRADECYLOCTADECANOATE	DIOCTADECANYL DITETRADECYLOCTADECANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIOCTYL MALATE	Diethylhexyl Malate	56235-92-8	(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%	
DIOCTYL MALATE	DIOCTYL MALATE	56235-92-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIOCTYL SODIUM SULFOSUCCINATE	DIETHYLHEXYL SODIUM SULFOSUCCINATE	577-11-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
DIOCTYL SODIUM SULFOSUCCINATE	DIOCTYL SODIUM SULFOSUCCINATE	577-11-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
DIOCTYLDODECETH-2 LAUROYL GLUTAMATE	Diocetyldodeceth2 Lauroyl Glutamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIOCTYLDODECETH-5 LAUROYL GLUTAMATE	Diocetyldodeceth5 Lauroyl Glutamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIOCTYLDODECYL ADIPATE	DIOCTYLDODECYL ADIPATE	85117-94-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIOCTYLDODECYL DIMER DILINOLEATE	DIOCTYLDODECYL DIMER DILINOLEATE	129423-60-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIOCTYLDODECYL DODECANEDIOATE	DIOCTYLDODECYL DODECANEDIOATE	129423-55-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DIOCTYLDODECYL SEBACATE	DIOCTYLDODECYL SEBACATE	69275-01-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIOLETH-8 PHOSPHATE	Dioleth8 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DIOLEYL PHOSPHATE	DIOLEYL PHOSPHATE	14450-07-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DIOLEYL TOCOPHERYL METHYLSILANOL	DIOLEYL TOCOPHERYL METHYLSILANOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
DIOLEYL TOCOPHERYL METHYLSILANOL	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
DIOSCOREA VILLOSA	DIOSCOREA VILLOSA (WILD YAM) ROOT EXTRACT	90147-49-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15% of max 2% plant solids. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: pesticides.	
DIOSCOREA VILLOSA (WILD YAM) ROOT EXTRACT	DIOSCOREA VILLOSA (WILD YAM) ROOT EXTRACT	90147-49-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15% of max 2% plant solids. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: pesticides.	
DIOSCOREA VILLOSA (WILD YAM) ROOT EXTRACT	WILD YAM (DIOSCOREA VILLOSA) EXTRACT	90147-49-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15% of max 2% plant solids. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: pesticides.	
DIPALMITOYL CYSTINE	DIPALMITOYL CYSTINE	17627-10-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DIPENTAERYTHRITYL PENTAISONONANOATE	DIPENTAERYTHRITYL PENTAISONONANOATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 13%.	
DIPHENYL DIMETHICONE	DIPHENYL DIMETHICONE	68083-14-7	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIPHENYL DIMETHICONE CROSSPOLYMER	DIPHENYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIPHENYL DIMETHICONE CROSSPOLYMER	DIPHENYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIPHENYL DIMETHICONE/VINYL DIPHENYL DIMETHICONE/SILSESQUIOXANE CROSSPOLYMER	DIPHENYL DIMETHICONE/VINYL DIPHENYL DIMETHICONE/SILSESQUIOXANE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIPHENYL DIMETHICONE/VINYL DIPHENYL DIMETHICONE/SILSESQUIOXANE CROSSPOLYMER	DIPHENYL DIMETHICONE/VINYL DIPHENYL DIMETHICONE/SILSESQUIOXANE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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DIPHENYLSILOXY PHENYL TRIMETHICONE	DIPHENYLSILOXY PHENYL TRIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIPOTASSIUM ASPARTATE	DIPOTASSIUM ASPARTATE	14007-45-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIPOTASSIUM AZELATE	DIPOTASSIUM AZELATE	19619-43-3	These ingredients were added to the list of restricted substances due to known therapeutic properties and risk of skin irritation at concentrations above the maximum permitted concentration of 14%.	x
DIPOTASSIUM EDTA	DIPOTASSIUM EDTA	2001-94-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used at a concentration of 1% or less.	
DIPOTASSIUM GLYCYRRHIZATE	DIPOTASSIUM GLYCYRRHIZATE	68797-35-3	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: pesticides/PCBs, toxic metals, and heavy metals. The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
DIPOTASSIUM OXALATE	DIPOTASSIUM OXALATE	583528	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIPROPYL ADIPATE	DIPROPYL ADIPATE	106-19-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DIPROPYL OXALATE	DIPROPYL OXALATE	615985	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
DIPROPYLENE GLYCOL ISOCETETH-20 ACETATE	Dipropylene Glycol Isoceteth20 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Dipropylene Glycol Methyl Ether	Dipropylene glycol methyl ether	34590-94-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Dipropylene Glycol Methyl Ether	PPG2 Methyl Ether	34590-94-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
DISILOXANE	DISILOXANE	107-46-0	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DISODIUM ADENOSINE PHOSPHATE	DISODIUM ADENOSINE PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DISODIUM ADENOSINE TRIPHOSPHATE	DISODIUM ADENOSINE TRIPHOSPHATE	987-65-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DISODIUM AZELATE	DISODIUM AZELATE	17265-13-3	These ingredients were added to the list of restricted substances due to known therapeutic properties and risk of skin irritation at concentrations above the maximum permitted concentration of 14%.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DISODIUM AZELATE	DISODIUM AZELATE	17265-13-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DISODIUM C12-14 PARETH-1 SULFOSUCCINATE	DISODIUM C12-14 PARETH-1 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM C12-14 PARETH-2 SULFOSUCCINATE	DISODIUM C12-14 PARETH-2 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM C12-14 SEC-PARETH-12 SULFOSUCCINATE	DISODIUM C12-14 SEC-PARETH-12 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM C12-14 SEC-PARETH-3 SULFOSUCCINATE	DISODIUM C12-14 SEC-PARETH-3 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM C12-14 SEC-PARETH-5 SULFOSUCCINATE	DISODIUM C12-14 SEC-PARETH-5 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM C12-14 SEC-PARETH-7 SULFOSUCCINATE	DISODIUM C12-14 SEC-PARETH-7 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM C12-14 SEC-PARETH-9 SULFOSUCCINATE	DISODIUM C12-14 SEC-PARETH-9 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM C12-15 PARETH SULFOSUCCINATE	DISODIUM C12-15 PARETH SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM CAPRYLOYL GLUTAMATE	Disodium capryloyl glutamate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.4%	
DISODIUM COCAMIDO MIPA PEG-4 SULFOSUCCINATE	Disodium Cocamido Mipa Peg4 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM COCAMIDO PEG-3 SULFOSUCCINATE	Disodium Cocamido Peg3 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM COCOAMPHODIACETATE	COCOAMPHODIACETATE	68650-39-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
DISODIUM COCOAMPHODIACETATE	DISODIUM COCOAMPHODIACETATE	68650-39-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DISODIUM COCOAMPHODIPROPIONATE	COCOAMPHODIPROPIONATE	68411-57-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
DISODIUM COCOAMPHODIPROPIONATE	DISODIUM COCOAMPHODIPROPIONATE	68411-57-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DISODIUM CUPRIC CITRATE	DISODIUM CUPRIC CITRATE	38218-87-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DISODIUM DECETH-5 SULFOSUCCINATE	Disodium Deceth5 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DISODIUM DECETH-5 SULFOSUCCINATE	DISODIUM DECETH-5 SULFOSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM DECETH-6 SULFOSUCCINATE	Disodium Deceth6 Sulfosuccinate	68311035	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM DECETH-6 SULFOSUCCINATE	DISODIUM DECETH-6 SULFOSUCCINATE	68311-03-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM EDTA	DISODIUM EDTA	139-33-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used at a concentration of 1% or less.	
DISODIUM EDTA-COPPER	DISODIUM EDTA-COPPER	14025-15-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
DISODIUM EDTA-COPPER	DISODIUM EDTA-COPPER	14025-15-1	Per the U.S. FDA., disodium EDTA-copper shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Total copper, not less than 13.5 percent. Total (ethylene-dinitrilo) tetracetic acid, not less than 62.5 percent. Free copper, not more than 100 parts per million. Free disodium salt of (ethylene-dinitrilo) tetraacetic acid, not more than 1.0 percent. Moisture, not more than 15 percent. Water insoluble matter, not more than 0.2 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million.	x
DISODIUM ETHLENE DICOCAMIDE PEG 15 DISULFATE	Disodium Ethlene Dicocamide Peg 15 Disulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM GLYCYRRHIZATE	DISODIUM GLYCYRRHIZATE	71277-79-7	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: pesticides/PCBs, toxic metals, and heavy metals.	
DISODIUM HYDROGENATED TALLOW GLUTAMATE	Disodium hydrogenated tallow glutamate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%	
DISODIUM LANETH-5 SULFOSUCCINATE	DISODIUM LANETH-5 SULFOSUCCINATE	68890-92-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM LAURAMIDO PEG-2 SULFOSUCCINATE	Disodium Lauramido Peg2 Sulfosuccinate	56388444	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURAMIDO PEG-5 SULFOSUCCINATE	Disodium Lauramido Peg5 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH SULFOSUCCINATE	Disodium laureth sulfosuccinate	58450525	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DISODIUM LAURETH SULFOSUCCINATE	DISODIUM LAURETH SULFOSUCCINATE	58450-52-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM LAURETH-12 SULFOSUCCINATE	Disodium Laureth9 Sulfosuccinate	39354455	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH-12 SULFOSUCCINATE	Disodium Laureth6 Sulfosuccinate	39354455	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH-12 SULFOSUCCINATE	Disodium Laureth12 Sulfosuccinate	39354455	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH-12 SULFOSUCCINATE	DISODIUM LAURETH-12 SULFOSUCCINATE	39354-45-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM LAURETH-5 CARBOXYAMPHODIACETATE	Disodium Laureth5 Carboxyamphodiacetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH-6 SULFOSUCCINATE	Disodium Laureth6 Sulfosuccinate	39354455	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH-6 SULFOSUCCINATE	DISODIUM LAURETH-6 SULFOSUCCINATE	39354-45-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM LAURETH-7 CITRATE	Disodium Laureth7 Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH-9 SULFOSUCCINATE	Disodium Laureth9 Sulfosuccinate	39354455	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM LAURETH-9 SULFOSUCCINATE	DISODIUM LAURETH-9 SULFOSUCCINATE	39354-45-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM LAURIMINODIPROPIONATE TOCOPHERYL PHOSPHATES	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
DISODIUM LAURYL PHOSPHATE	DISODIUM LAURYL PHOSPHATE	7423-32-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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DISODIUM MALYL TYROSINATE	DISODIUM MALYL TYROSINATE	126139-79-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM NONOXYNOL-10 SULFOSUCCINATE	Disodium Nonoxynol10 Sulfosuccinate	67999-57-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM OLEAMIDO PEG-2 SULFOSUCCINATE	Disodium Oleamido Peg2 Sulfosuccinate	56388433	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM OLEAMIDO PEG-2 SULFOSUCCINATE	DISODIUM OLEAMIDO PEG-2 SULFOSUCCINATE	56388-43-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DISODIUM OLETH-3 SULFOSUCCINATE	DISODIUM OLETH3 SULFOSUCCINATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM OLEYL PHOSPHATE	DISODIUM OLEYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DISODIUM PALMITAMIDO PEG-2 SULFOSUCCINATE	Disodium Palmitamido Peg2 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PALMITOLEAMIDO PEG-2 SULFOSUCCINATE	Disodium Palmitoleamido Peg2 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG STEARATE	Disodium Peg Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-12 DIMETHICONE	Disodium Peg12 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-12 DIMETHICONE SULFOSUCCINATE	Disodium Peg12 Dimethicone Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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DISODIUM PEG-12 DIMETHICONE SULFOSUCCINATE	DISODIUM PEG-12 DIMETHICONE SULFOSUCCINATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DISODIUM PEG-2 OLEAMIDO SULFOSUCCINATE	Disodium Peg2 Oleamido Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-4 COCAMIDO MIPA-SULFOSUCCINATE	Disodium Peg4 Cocamido MipaSulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-5 LANOLIN ETHER SULFOSUCCINATE	Disodium Peg5 Lanolin Ether Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-5 LAURYL CITRATE SULFOSUCCINATE	Disodium Peg5 Laurylcitrate Sulfosuccinate	164458735	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-8 GLYCERYL CAPRYLATE/CAPRATE	Disodium Peg8 Glyceryl Caprylate/caprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-8 PALM GLYCERIDES SULFOSUCCINATE	Disodium Peg8 Palm Glycerides Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PEG-8 RICINOSUCCINATE	Disodium Peg8 Ricinosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM PPG-2-ISODECETH-7 CARBOXYAMPHODIACETATE	Disodium Ppg2Isodeceth7 Carboxyamphodiacetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM STEAROYL GLUTAMATE	Disodium stearyl glutamate	38079-62-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 6%	
DISODIUM SUCCINATE	DISODIUM SUCCINATE	150-90-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	
DISODIUM SUCCINOYL GLYCERYLRHETINATE	DISODIUM SUCCINOYL GLYCERYLRHETINATE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: pesticides/PCBs, toxic metals, and heavy metals.	

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DISODIUM UNDECYLENAMIDO PEG-2 SULFOSUCCINATE	Disodium Undecylenamido Peg2 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISODIUM WHEAT GERMAMIDO PEG-2 SULFOSUCCINATE	Disodium Wheat Germamido Peg2 Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISPERSE BLACK 9	DISPERSE BLACK 9	12222694	The European Commission restricts this ingredient to a maximum concentration of 0.3% (of the mixture in the ratio 1:1 of 2,2'[4(4aminophenylazo)phenylimino]diethanol and lignosulfate) in nonoxidative hair dye products.	
DISPERSE BLACK 9	DISPERSE BLACK 9	12222-69-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
DISPERSE BLUE 1	Disperse Blue 1	2475458	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
DISPERSE RED 17	Ethanol, 2,2'[[3 methyl4[(E)(4 nitrophenyl)azo] phenyl]imino]bis	3179893	(*) The European Commission restricts this ingredient to a maximum concentration of 2.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 0.2% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: (*) The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: you have a rash on your face or sensitive, irritated and damaged scalp, you have ever experienced any reaction after colouring your hair, you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of nonoxidative hair dyes: 'Can cause allergic reactions.' Lastly, the European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'This product can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: has a rash on the face or sensitive, irritated and damaged scalp, has experienced a reaction after colouring hair or	
DISPERSE VIOLET 1	DISPERSE VIOLET 1	128950	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
DISTANNOXANE, HEXABUTYL-	Tin, Organic	56359	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
DISTANNOXANE, HEXABUTYL-	Tributyl Tin Oxide	56359	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
DISTEARALKONIUM HECTORITE	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

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DISTEARDIMONIUM HECTORITE	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
DISTEARETH 100 IPDI	Disteareth 100 IpdI		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISTEARETH-75 IPDI	Disteareth75 IpdI		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DISTEARAMONIUM HECTORITE	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
DISTEARYLDIMETHYLAMINE DILINOLEATE	DISTEARYLDIMETHYLAMINE DILINOLEATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
DISTILLATES (COAL-PETROLEUM), CONDENSED-RING AROM	Distillates (coalpetroleum), condensedring arom	68188487	The European Commission bans this ingredient from use in cosmetics if it contains over 0.005% w/w benzo[a]pyrene	
Distillates (petroleum), acid-treated light	Distillates (petroleum), acidtreated light	64742149	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
DISTILLATES (PETROLEUM), HYDRODESULFURIZED MIDDLE	Distillates (petroleum), hydrodesulfurized middle	64742809	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
DISTILLATES RESIDUE, LOW-BOILING	DISTILLATES RESIDUE, LOWBOILING	68477316	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
DISULFIRAM	Thiurams	97778	Canada restrictes the use of this chemical in latex products at maximum concentration of 14%	
DITRIDECYL SODIUM SULFOSUCCINATE	DITRIDECYL SODIUM SULFOSUCCINATE	2673-22-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DIVINYLDIMETHICONE	DIVINYLDIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIVINYLDIMETHICONE	DIVINYLDIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

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DIVINYLDIMETHICONE/ DIMETHICONE COPOLYMER	DIVINYLDIMETHICONE/ DIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIVINYLDIMETHICONE/DIMETHICONE CROSSPOLYMER	DIVINYLDIMETHICONE/DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
DIVINYLDIMETHICONE/DIMETHICONE CROSSPOLYMER	DIVINYLDIMETHICONE/DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
DMDM HYDANTOIN	DMDM HYDANTOIN	6440580	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
DMDM HYDANTOIN	13DIMETHYLOL55DIMETHYLHYDANTOIN	6440-58-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in rinseoff products (not applied to mucosa).	
DMDM HYDANTOIN	13DIMETHYLOL55DIMETHYLHYDANTOIN	6440-58-0	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
DMDM HYDANTOIN	13DIMETHYLOL55DIMETHYLHYDANTOIN	6440-58-0	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in leaveon products (not applied to mucosa).	
DMDM HYDANTOIN	1,3Bis(hydroxymethyl)5,5dimethylimidazolidine2,4dione	6440580	(*) The European Commission restricts this ingredient to a maximum concentration of 0.60%	
DMDM HYDANTOIN	DMDM HYDANTOIN	6440-58-0	Per COSING, the maximum concentration in RTU preparation 0.60%.	x
DOBANOL 25-3	Dobanol 253	58391-12-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DODECANEDIOIC ACID	Dodecanedioic Acid	693232	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
DODECYLHEXADECYLTRIMONIUM CHLORIDE	DODECYLHEXADECYLTRIMONIUM CHLORIDE	103807-18-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
DODOXYNOL-12	Dodoxynol12	9014-92-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
DROMETRIZOLE	DROMETRIZOLE	2440-22-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.07%.	
DROMETRIZOLE	22HYDROXY5METHYLPHENYLBENZOTRIAZOLE	2440-22-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 7% in leaveon products.	
DROMETRIZOLE TRISILOXANE	DROMETRIZOLETRISILOXANE	155633-54-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 15% in rinseoff products (not applied to mucosa).	
DROMETRIZOLE TRISILOXANE	DROMETRIZOLETRISILOXANE	155633-54-8	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
DROMETRIZOLE TRISILOXANE	DROMETRIZOLETRISILOXANE	155633-54-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 15% in leaveon products (not applied to mucosa).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
DROMETRIZOLE TRISILOXANE	Phenol	155633-54-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1%.	
DURVILLAEA ANTARCTICA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
DURVILLAEA ANTARTICA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
DURVILLAEA POTATORUM EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ECKLONIA CAVA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ECKLONIA CAVA EXTRACT	ECKLONIA CAVA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ECKLONIA KUROME EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ECKLONIA RADIATA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
EDTA	EDTA	60-00-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
ELAEIS GUINEENSIS (PALM) KERNEL OIL	ELAEIS GUINEENSIS (PALM) KERNEL OIL	8002-75-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 23%.	
ELAEIS GUINEENSIS (PALM) KERNEL OIL	ELAEIS GUINEENSIS (PALM) OIL	8002-75-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 48%.	
ELAEIS GUINEENSIS (PALM) KERNEL OIL	PALM OIL	8002-75-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 48%.	
ELASTIN	ELASTIN	9007-58-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ELASTIN AMINO ACIDS	ELASTIN AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ELGUEA CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
EMERALD	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
EMERALD	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
EMULSIFYING WAX	CETEARYL ALCOHOL		The Cosmetic Ingredient Review has determined that cetearyl alcohol (a component of emulsifying wax) is safe as used up to a concentration of 25%.	
EMULSIFYING WAX	EMULSIFYING WAX N.F.		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 21%.	
ENSULIZOLE	PHENYLBENZIMIDAZOLESULFONIC ACID	27503-81-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 3% in rinseoff products (not applied to mucosa).	
ENSULIZOLE	PHENYLBENZIMIDAZOLESULFONIC ACID	27503-81-7	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
ENSULIZOLE	PHENYLBENZIMIDAZOLESULFONIC ACID	27503-81-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 3% in leaveon products (not applied to mucosa).	
EPOXY RESIN COATED ALUMINUM POWDER	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
ERUCAMIDOPROPYL HYDROXYSULTAINE	ERUCAMIDOPROPYL HYDROXYSULTAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ERUCIC ACID	ERUCIC ACID	112-86-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ERUCYL ARACHIDATE	ERUCYL ARACHIDATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ERUCYL ERUCATE	ERUCYL ERUCATE	27640-89-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ERUCYL OLEATE	ERUCYL OLEATE	85617-81-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ERYTHORBIC ACID	ERYTHORBIC ACID	89656	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
ESTER-C LIQUID SODIUM MAGNESIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ESTRAGOLE	Estragole	140670	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in fine fragrance and eau de toilette, 0.01% in other leaveon and rinseoff products, and 0.2% in nonskin incidental skin contact products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ESTRAGOLE	Estragole	140670	California Prop65 lists this chemical as known to cause cancer; therefore, this chemical is not allowed as a direct addition to a product and cannot make up more than 50% of any listed ingredient.	
ESTRAGOLE	Estragole	140670	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %	
ESTRAGOLE	Estragole	77525189	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %	
ESTRAGOLE	Estragole	1407278	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %	
ETHANEPEROXOIC ACID/ALUMINUM ISOPROXIDE/TRIMETHYL-CYCLODODECATRIENE	Aluminum Compounds	111850-00-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ETHANOL, 2-((2-AMINOETHYL)AMINO)-	Aminoethyl Ethanolamine	111411	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens.	
ETHANOL, 2-((2-AMINOETHYL)AMINO)-	Aminoethyl Ethanolamine	111411	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ETHANOL, 2,2'-((4-AMINOPHENYL)IMINO)BIS-, SULFATE (SALT), HYDRATE (1:1:1)	ETHANOL, 2,2'((4AMINOPHENYL)IMINO)BIS, SULFATE (SALT), HYDRATE (1:1:1)	54381167	The European Commission restricts this ingredient to a maximum concentration of 2.5% (calculated as sulphate) applied to hair after mixing under oxidative conditions in oxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, and it cannot have a nitrosamine content of more than 50 microgram/kg. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
ETHANOL, 2,2'-(BUTYLIMINO)DI-	ETHANOL, 2,2'(BUTYLIMINO)DI	102794	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ETHANOLAMINE	Ethanolamine	141435	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ETHANOLAMINE	Ethanolamines, NOS	141435	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ETHANOLAMINE	Monoethanolamine	141435	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ETHANOLAMINE	Monoethanolamine	141435	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ETHANOLAMINE DITHIODIGLYCOLATE	ETHANOLAMINE DITHIODIGLYCOLATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ETHANOLAMINE GLYCEROPHOSPHATE	ETHANOLAMINE GLYCEROPHOSPHATE	35907347	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ETHANOLAMINE HCL	ETHANOLAMINE HCL	2002246	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ETHANOLAMINE THIOGLYCOLATE	ETHANOLAMINE THIOGLYCOLATE	126976	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a secondary amine content over 0.5%, it must have a minimum purity of 99%, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professionally use only.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ETHANOLAMINE THIOGLYCOLATE	ETHANOLAMINE THIOGLYCOLATE	126-97-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
ETHER, 1-CHLORO-2,2,2-TRIFLUOROETHYL DIFLUOROMETHYL	Isoflurane	26675467	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ETHER, 2-CHLORO-1,1,2-TRIFLUOROETHYL DIFLUOROMETHYL	Anesthetic Gases, Halogenated	13838169	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ETHER, 2-CHLORO-1,1,2-TRIFLUOROETHYL DIFLUOROMETHYL	Enflurane	13838169	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ETHER, FLUOROMETHYL 2,2,2-TRIFLUORO-1-(TRIFLUOROMETHYL)ETHYL-	Sevoflurane	28523866	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
ETHOXY-p-CRESOL	2Ethoxy4methylphenol	2563077	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.01% in deodorants/antiperspirants, 0.03% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.2% in mouthwashes, breath sprays, and toothpastes, 0.02% in intimate wipes, and baby wipes, 0.2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 1.2% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ETHOXY-PROPENYLPHENOL	PROPENYLGUAETHOL	94860	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.18% Category 2) 0.053% Category 3) 0.11% Category 4) 0.99% Category 5A) 0.25% Category 5B) 0.21% Category 5C) 0.25% Category 5D) 0.071% Category 6) 0.58% Category 7A) 0.32% Category 7B) 0.32% Category 8) 0.071% Category 9) 0.75% Category 10A) 0.75% Category 10B) 3.7% Category 11A) 0.071% Category 11B) 0.071% Category 12) 58%	
ETHOXY-PROPENYLPHENOL	PROPENYLGUAETHOL	63477418	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.18% Category 2) 0.053% Category 3) 0.11% Category 4) 0.99% Category 5A) 0.25% Category 5B) 0.21% Category 5C) 0.25% Category 5D) 0.071% Category 6) 0.58% Category 7A) 0.32% Category 7B) 0.32% Category 8) 0.071% Category 9) 0.75% Category 10A) 0.75% Category 10B) 3.7% Category 11A) 0.071% Category 11B) 0.071% Category 12) 58%	
ETHOXYDIGLYCOL	2(2ethoxyethoxy)ethanol Diethylene Glycol Monoethyl Ether (DEGREE),Ethoxydiglycol	111900	(*) The European Commission prohibits the use of this ingredient in eye and oral products, and restricts it to a maximum concentration of 7% in oxidative hair dye products, 5% in nonoxidative hair dye products, 10% in rinseoff products other than hair dye product, 2.6% in other nonspray cosmetic products, and 2.6% in the following spray products fine fragrances, hair sprays, antiperspirant and deodorant. Additionally, the level of ethylene glycol impurity in Ethoxydiglycol must be <= 0.1 %.	
ETHOXYETHYL METHACRYLATE	ETHOXYETHYL METHACRYLATE	51289-08-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ETHOXYLATED ALKYL PHENOL	Ethoxylated Alkyl Phenol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ethoxylated amines	Ethoxylated Amines		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	PEG9 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg80 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg8 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg75 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg60 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg55 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg54 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg50 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ETHOXYLATED CASTOR OIL	Peg5 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg44 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	PEG4 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	PEG36 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	PEG33 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	PEG30 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg3 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg29 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg26 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg25 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ETHOXYLATED CASTOR OIL	Peg200 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg20 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg2 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg16 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg15 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg11 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg100 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	Peg10 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	PEG40 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED CASTOR OIL	PEG35 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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ETHOXYLATED CASTOR OIL	Ethoxylated castor oil	61791-12-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ethoxylated cocoalkylamines	Ethoxylated Cocoalkylamines	61791-31-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Ethoxylated Ethylhexanol	Ethoxylated Ethylhexanol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED EVENING PRIMROSE OIL	Ethoxylated Evening Primrose Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED GLYCERIDES	Ethoxylated Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ethoxylated octadecylamine	Ethoxylated Octadecylamine	26635-92-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ethoxylated oleylamines	Ethoxylated Oleylamines	13127-82-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHOXYLATED PLANT STEROLS	Ethoxylated Plant Sterols		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ethoxylated soyaalkylamines	Ethoxylated Soyaalkylamines	73246-96-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ethoxylated tallowalkylamines	Ethoxylated Tallowalkylamines	61791-44-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Ethoxylated Undecyl Alcohol	Ethoxylated Undecyl Alcohol	127036-24-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHYL BENZOATE	ETHYL BENZOATE	93-89-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.01%.	
ETHYL BENZOATE	Benzoate	93-89-0	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
ETHYL CITRAL	3,7Dimethyl2,6nonadien1al	41448297	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.032 % Category 3) 0.65 % Category 4) 0.60 % Category 5A) 0.15 % Category 5B) 0.15 % Category 5C) 0.15 % Category 5D) 0.051 % Category 6) 0.16 % Category 7A) 1.2 % Category 7B) 1.2 % Category 8) 0.051 % Category 9) 0.16 % Category 10A) 0.16 % Category 10B) 4.2 % Category 11A) 0.051 % Category 11B) 0.051 % Category 12) No Restriction	
ETHYL HEXANEDIOL	ETHYL HEXANEDIOL	94962	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
Ethyl Hexanol Ethoxylated Propoxylated	Ethyl Hexanol Ethoxylated Propoxylated		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHYL LACTATE	ETHYL LACTATE	97643	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
ETHYL LAUROYL ARGINATE HCL	ETHYL LAUROYL ARGINATE HCL	60372772	The European Commission restricts this ingredient to a maximum concentration of 0.8% in soap, antidandruff shampoos, and nonspray deodorants. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
ETHYL LAUROYL ARGINATE HCL	Ethyl Lauroyl Arginate HCl (preservative)	60372772	(*) The European Commission restricts this ingredient to a maximum concentration of 0.4% when used as a preservative.	
ETHYL LAUROYL ARGINATE HCL	ETHYL LAUROYL ARGINATE HCL	60372-77-2	Per COSING, the maximum concentration in RTU preparation is a) 0.15% for mouthwashes b) 0.4% for other. Prohibited for use in preparations for children under 10 years of age and in lip products, oral products (other than mouthwashes), and spray products.	x
ETHYL METHACRYLATE	ETHYLMETHACRYLATE	97632	Required Warning: Health Canada requires the following warning text on the product label/package: 'Avoid skin contact'.	
ETHYL METHICONE	ETHYL METHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ETHYL MYRISTATE	ETHYL MYRISTATE	124-06-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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ETHYL PEG-15 COCAMINE SULFATE	Ethyl Peg15 Cocamine Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ETHYL THIOGLYCOLATE	ETHYL THIOGLYCOLATE	623518	The European Commission restricts this ingredient to a maximum concentration of 8% (calculated as thioglycolic acid) in hair waving products and 11% (calculated as thioglycolic acid) in hair straightening products. Required Warning: The European Commission requires the following conditions of use on the label/package of general and professional use hair waving or straightening products: 'May cause sensitization in the event of skin contact'; 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'; 'Wear suitable gloves'. Additionally, the following warning text are required: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Lastly, the following warning must also be labeled in addition to the above on professional use hair waving or straightening products: 'For professional use only'	
ETHYL THIOGLYCOLATE	ETHYL THIOGLYCOLATE	623-51-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
ETHYL TRISILOXANE	ETHYL TRISILOXANE	17861-60-8	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ETHYLCELLULOSE	ETHYLCELLULOSE	9004-57-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
ETHYLENE GLYCOL, ESTER WITH SILICIC ACID (4:1)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ETHYLENE/ ACRYLIC ACID COPOLYMER	ETHYLENE/ ACRYLIC ACID COPOLYMER	9010-77-9	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLENE/ PROPYLENE COPOLYMER	ETHYLENE/ PROPYLENE COPOLYMER	9010-79-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ETHYLENE/ PROPYLENE/ STYRENE COPOLYMER	ETHYLENE/ PROPYLENE/ STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ETHYLENE/ACRYLIC ACID/VA COPOLYMER	ETHYLENE/ACRYLIC ACID/VA COPOLYMER	26713-18-8	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLENE/CALCIUM ACRYLATE COPOLYMER	ETHYLENE/CALCIUM ACRYLATE COPOLYMER	26445-96-5	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLENE/MAGNESIUM ACRYLATE COPOLYMER	ETHYLENE/MAGNESIUM ACRYLATE COPOLYMER	27515-37-3	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLENE/METHACRYLATE COPOLYMER	ETHYLENE/METHACRYLATE COPOLYMER	25103-74-6	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLENE/OCTENE COPOLYMER	ETHYLENE/OCTENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ETHYLENE/SODIUM ACRYLATE COPOLYMER	ETHYLENE/SODIUM ACRYLATE COPOLYMER	25749-98-8	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLENE/ZINC ACRYLATE COPOLYMER	ETHYLENE/ZINC ACRYLATE COPOLYMER	28208-80-2	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLENEDIAMINE	Ethylenediamine	107153	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ETHYLENEDIAMINE	Ethylenediamine	107153	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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ETHYLHEXYL ACRYLATE/METHYL METHACRYLATE COPOLYMER	ETHYLHEXYL ACRYLATE/METHYL METHACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
ETHYLHEXYL ACRYLATE/METHYL METHACRYLATE COPOLYMER	ETHYLHEXYL ACRYLATE/METHYL METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ETHYLHEXYL ACRYLATE/VP/DIMETHICONE METHACRYLATE COPOLYMER	ETHYLHEXYL ACRYLATE/VP/DIMETHICONE METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ETHYLHEXYL BENZOATE	Benzoate	5444-75-7	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
ETHYLHEXYL BENZOATE	ETHYLHEXYL BENZOATE	5444-75-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ETHYLHEXYL ETHYLHEXANOATE	ETHYLHEXYL ETHYLHEXANOATE	7425-14-1	This ingredient was added to the list of restricted substances due to health concerns, as assessed by the Government of Canada's Chemicals Management Plan (CMP) under the Canadian Environmental Protection Act, 1999 (CEPA 1999). It is limited to a maximum concentration of 0.1% in body lotion, 0.5% in foot lotion, and 0.6% in face makeup.	x
ETHYLHEXYL HYDROXYSTEARATE BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
ETHYLHEXYL SALICYLATE	ETHYLHEXYL SALICYLATE		The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
ETHYLHEXYL STEARATE	ETHYLHEXYL STEARATE	22047-49-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%.	
ETHYLHEXYLGLYCERIN	Ethylhexylglycerin	70445339	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%.	
ETHYLPARABEN	Ethylparaben	120478	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% if used alone and 0.8% when used with a paraben mixture.	
ETHYLPARABEN	ETHYLPARABEN	120-47-8	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
ETHYLPARABEN	ETHYLPARABEN	120-47-8	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
ETIDRONIC ACID	ETIDRONIC ACID	2809214	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as etidronic acid) in hair products, and 0.2% (as etidronic acid) in soap products.	
EUCALYPTUS GLOBULUS (EUCALYPTUS) LEAF	EUCALYPTUS GLOBULUS (EUCALYPTUS) LEAF		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
EUCALYPTUS GLOBULUS (EUCALYPTUS) LEAF OIL	Eucalyptus globulus oil	8000-48-4	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be non-sensitizing up to a concentration of 0.74%.	x
EUCALYPTUS GLOBULUS (EUCALYPTUS) LEAF OIL	EUCALYPTUS GLOBULUS (EUCALYPTUS) LEAF OIL	8000-48-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
EUCALYPTUS GLOBULUS (TASMANIAN BLUE GUM) LEAF EXTRACT	EUCALYPTUS GLOBULUS (TASMANIAN BLUE GUM) LEAF EXTRACT	84625-32-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x

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EUCALYPTUS GLOBULUS LEAF WATER	EUCALYPTUS GLOBULUS LEAF WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
EUCALYPTUS GLOBULUS LEAF/TWIG OIL	Eucalyptus globulus oil	8000-48-4	The Cosmetic Ingredient Review panel concludes this substance is safe as used when formulated to be non-sensitizing up to a concentration of 0.74%.	x
EUCALYPTUS GLOBULUS LEAF/TWIG OIL	EUCALYPTUS GLOBULUS LEAF/TWIG OIL	84625-32-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
EUGENIA CARYOPHYLLUS (CLOVE)	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE)	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) BUD	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) BUD	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) BUD OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) BUD OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) EXTRACT	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) EXTRACT	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) FLOWER EXTRACT	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) FLOWER EXTRACT	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) FLOWER OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) FLOWER OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	

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EUGENIA CARYOPHYLLUS (CLOVE) FLOWER POWDER	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) FLOWER POWDER	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) LEAF EXTRACT	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) LEAF EXTRACT	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) LEAF OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) LEAF OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS (CLOVE) OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS STEM OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENIA CARYOPHYLLUS STEM OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENOL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EUGENOL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance (Eugenol) be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
EUGENOL	Eugenol	97530	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.2% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.5% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.4% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
EUGENOL	Eugenol	97530	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
EUGENOL	Eugenol	97530	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.45% Category 2) 0.14% Category 3) 1.4% Category 4) 2.5% Category 5A) 0.64% Category 5B) 0.64% Category 5C) 0.64% Category 5D) 0.21% Category 6) 0.64% Category 7A) 1.4% Category 7B) 1.4% Category 8) 0.21% Category 9) 4.9% Category 10A) 4.9% Category 10B) 18% Category 11A) 0.21% Category 11B) 0.21% Category 12) No Restriction	
EUPHORBIA CERIFERA (CANDELILLA) WAX	EUPHORBIA CERIFERA (CANDELILLA) WAX	8006-44-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
EUPHORBIA CERIFERA (CANDELILLA) WAX	EUPHORBIA CERIFERA (CANDELILLA) WAX	8006-44-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
EUTERPE EDULIS JUICE EXTRACT	EUTERPE EDULIS JUICE EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
EUTERPE OLERACEA (ACAI) FRUIT EXTRACT	EUTERPE OLERACEA (ACAI) FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
EUTERPE OLERACEA FRUIT OIL	EUTERPE OLERACEA FRUIT OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
EVERNIA FURFURACEA (OAKMOSS LICHEN)	EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	90028674	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	90028674	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	FURFURACEA (TREEMOSS) EXTRACT	90028674	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	Treemoss Extracts	90028674	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.5% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 0.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	Treemoss Extracts	90028674	The International Fragrance Association restricts the dehydroabietic acid (DHA) concentration of this ingredient to a maximum of 0.8% in the extract, and the levels of atranol and chloroatranol should each be below 100ppm.	
EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	Treemoss Extracts	90028674	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020% Category 2) 0.016% Category 3) 0.10% Category 4) 0.10% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.076% Category 6) 0.18% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.032% Category 9) 0.10% Category 10A) 0.10% Category 10B) 0.10% Category 11A) 0.10% Category 11B) 0.10% Category 12) No Restriction	
EVERNIA PRUNASTRI (RING LICHEN) EXTRACT	EVERNIA PRUNASTRI (RING LICHEN) EXTRACT	90028685	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
EVERNIA PRUNASTRI (RING LICHEN) EXTRACT	Oakmoss Extracts	90028685	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.5% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 0.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
EVERNIA PRUNASTRI (RING LICHEN) EXTRACT	Oak moss extracts	90028685	According to the International Fragrance Association, this ingredient must not contain added tree moss. Additionally, dehydroabietic acid (DHA) must not exceed 0.1% in the extract, and the levels of atranol and chloroatranol should each be below 100ppm.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
EVERNIA PRUNASTRI (RING LICHEN) EXTRACT	Oakmoss Extracts	90028685	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020% Category 2) 0.016% Category 3) 0.10% Category 4) 0.10% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.076% Category 6) 0.18% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.032% Category 9) 0.10% Category 10A) 0.10% Category 10B) 0.10% Category 11A) 0.10% Category 11B) 0.10% Category 12) No Restriction	
EVERNIA PRUNASTRI (RING LICHEN) EXTRACT	Oakmoss Extracts	9000504	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020% Category 2) 0.016% Category 3) 0.10% Category 4) 0.10% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.076% Category 6) 0.18% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.032% Category 9) 0.10% Category 10A) 0.10% Category 10B) 0.10% Category 11A) 0.10% Category 11B) 0.10% Category 12) No Restriction	
Ext. D&C Violet No. 2 (CI 60730)	Sodium 4[(9,10dihydro4hydroxy9,10dioxolanthryl)amino]toluene3sulphonate	4430-18-6	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
Ext. D&C Violet No. 2 (CI 60730)	Color additives subject to batch certification	4430-18-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Ext. D&C Violet No. 2 (CI 60730)	Ext. D&C Violet No. 2	4430-18-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Ext. D&C Violet No. 2 (CI 60730)	Ext. D&C Violet No. 2 (CI 60730)	4430-18-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Ext. D&C Violet No. 2 (CI 60730)	Ext. D&C Violet No. 2 (CI 60730)	4430-18-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Ext. D&C Violet No. 2 (CI 60730)	Ext. D&C Violet No. 2 (CI 60730)	4430-18-6	Per COSING, the maximum concentration in ready to use preparation is 0.5%.	x
Ext. D&C Violet No. 2 (CI 60730)	Ext. D&C Violet No. 2 (CI 60730)	4430-18-6	Per COSING, prohibited for use in products applied on mucous membranes.	x
Ext. D&C Yellow No. 7 (CI 10316)	Ext. D&C Yellow No. 7	846-70-8	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Ext. D&C Yellow No. 7 (CI 10316)	Ext. D&C Yellow No. 7	846-70-8	The European Commission prohibits use of this substance in eye products.	
Ext. D&C Yellow No. 7 (CI 10316)	Ext. D&C Yellow No. 7	846-70-8	This substance must contain <10 ppm 1naphthol, <20 ppm 2,4dinitro1naphthol, and <10 ppm lead.	
Ext. D&C Yellow No. 7 (CI 10316)	Ext. D&C Yellow No. 7 (CI 10316)	846-70-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Ext. D&C Yellow No. 7 (CI 10316)	Ext. D&C Yellow No. 7 (CI 10316)	846-70-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Ext. D&C Yellow No. 7 (CI 10316)	Ext. D&C Yellow No. 7 (CI 10316)	846-70-8	Per COSING, prohibited for use in eye products.	x
Ext. D&C Yellow No. 7 (CI 10316) Lake	Color additives subject to batch certification	68698-86-2	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Ext. D&C Yellow No. 7 (CI 10316) Lake	Ext. D&C Yellow No. 7	68698-86-2	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Ext. D&C Yellow No. 7 (CI 10316) Lake	Ext. D&C Yellow No. 7	68698-86-2	The European Commission prohibits use of this substance in eye products.	
Ext. D&C Yellow No. 7 (CI 10316) Lake	Ext. D&C Yellow No. 7 (CI 10316) Lake	68698-86-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Ext. D&C Yellow No. 7 (CI 10316) Lake	Ext. D&C Yellow No. 7 (CI 10316) Lake	68698-86-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FARNESAL	FARNESAL	19317114	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.032 % Category 3) 0.11 % Category 4) 0.60 % Category 5A) 0.15 % Category 5B) 0.15 % Category 5C) 0.15 % Category 5D) 0.051 % Category 6) 0.11 % Category 7A) 0.34 % Category 7B) 0.34 % Category 8) 0.051 % Category 9) 0.57 % Category 10A) 0.57 % Category 10B) 4.2 % Category 11A) 0.051 % Category 11B) 0.051 % Category 12) No Restriction	
FARNESOL	Farnesol	4602840	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
FARNESOL	Farnesol	4602840	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.08% in lip products, 0.11% in deodorants/antiperspirants, 0.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2% in mouthwashes, breath sprays, and toothpastes, 0.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
FARNESOL	Farnesol	4602840	According to the International Fragrance Association, this ingredient may only be used if it contains a minimum of 96% of farnesol isomers.	
FARNESOL	Farnesol	4602840	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.21 % Category 2) 0.062 % Category 3) 1.2 % Category 4) 1.2 % Category 5A) 0.29 % Category 5B) 0.29 % Category 5C) 0.29 % Category 5D) 0.29 % Category 6) 0.68 % Category 7A) 2.4 % Category 7B) 2.4 % Category 8) 0.12 % Category 9) 2.3 % Category 10A) 8.1 % Category 10B) 8.1 % Category 11A) 4.5 % Category 11B) 4.5 % Category 12) No Restriction; Farnesol should only be used as a fragrance ingredient if it contains a minimum of 96% of farnesol isomers as determined by GLC.	
Fast Green FCF (Uncertified FD&C Green No. 3)	CI 42053	2353-45-9	This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead, and <100 ppm manganese	
Fast Green FCF (Uncertified FD&C Green No. 3)	CI 42053	2353-45-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Fast Green FCF (Uncertified FD&C Green No. 3)	Fast Green FCF (Uncertified FD&C Green No. 3)	2353-45-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Fatty acid methyl ester ethoxylates	Fatty Acid Methyl Ester Ethoxylates		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Fatty acids, coco, esters with sorbitan, ethoxylated	Fatty acids, coco, esters with sorbitan, ethoxylated	68154-33-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
FD&C Green No. 3 (CI 42053)	CI 42053	2353-45-9	This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead, and <100 ppm manganese	
FD&C Green No. 3 (CI 42053)	CI 42053	2353-45-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
FD&C Green No. 3 (CI 42053)	FD&C Green No. 3 (CI 42053)	2353-45-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
FD&C Green No. 3 (CI 42053) Lake	CI 42053	2353-45-9	This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead, and <100 ppm manganese	
FD&C Green No. 3 (CI 42053) Lake	CI 42053	2353-45-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
FD&C Green No. 3 (CI 42053) Lake	FD&C Green No. 3 (CI 42053) Lake	2353-45-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
FD&C Red No. 4 (CI 14700)	FD&C Red 4	4548532	The European Commission banned the use of this substance in 2009.	
FD&C Red No. 4 (CI 14700)	AKA504	4548532	The European Commission banned the use of this substance in 2009.	
FD&C Red No. 4 (CI 14700)	Color additives subject to batch certification	4548-53-2	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
FD&C Red No. 4 (CI 14700)	FD&C Red No. 4 (CI 14700)	4548-53-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
FD&C Red No. 4 (CI 14700) Lake	FD&C Red 4	4548532	The European Commission banned the use of this substance in 2009.	
FD&C Red No. 4 (CI 14700) Lake	Color additives subject to batch certification	84455-18-5	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
FD&C Red No. 4 (CI 14700) Lake	FD&C Red No. 4 (CI 14700) Lake	84455-18-5	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
FD&C Red No. 40 (CI 16035)	CURRY RED/RED 40/RED 40 LAKE	25956176	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
FD&C Red No. 40 (CI 16035)	Color additives subject to batch certification	25956-17-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
FD&C Red No. 40 (CI 16035)	FD&C RED NO. 40	25956-17-6	This substance must contain <2ppm lead, <1ppm mercury, and <1ppm cadmium.	
FD&C Red No. 40 (CI 16035)	FD&C RED NO. 40	25956-17-6	This substance may not be exposed to oxidizing or reducing agents that could affect the integrity of the color additives or any other condition that may affect their integrity, in accordance with FDA regulations.	
FD&C Red No. 40 (CI 16035)	FD&C Red 40	25956176	Due to their link to carcinogenicity, this substance must contain less than 100 ppm total unsulfonated primary aromatic amines, including aniline, 6methoxymtoluidine, and 1naphthylamine.	x
FD&C Red No. 40 (CI 16035)	FD&C Red No. 40 (CI 16035)	25956-17-6	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 129)	x
FD&C Red No. 40 (CI 16035) Lake	CURRY RED/RED 40/RED 40 LAKE	25956176	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FD&C Red No. 40 (CI 16035) Lake	Color additives subject to batch certification	25956-17-6	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
FD&C Red No. 40 (CI 16035) Lake	FD&C RED NO. 40	25956-17-6	This substance must contain <2ppm lead, <1ppm mercury, and <1ppm cadmium.	
FD&C Red No. 40 (CI 16035) Lake	FD&C RED NO. 40	25956-17-6	This substance may not be exposed to oxidizing or reducing agents that could affect the integrity of the color additives or any other condition that may affect their integrity, in accordance with FDA regulations.	
FD&C Red No. 40 (CI 16035) Lake	FD&C Red 40	25956176	Due to their link to carcinogenicity, this substance must contain less than 100 ppm total unsulfonated primary aromatic amines, including aniline, 6methoxymtoluidine, and 1naphthylamine.	x
FD&C Yellow No. 5 (CI 19140)	FD&C Yellow 5	1934-21-0	This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine, <5 ppb 2aminobiphenyl, and <5 ppb 1naphthylamine.	
FD&C Yellow No. 5 (CI 19140)	FD&C Yellow 5	1934-21-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
FD&C Yellow No. 5 (CI 19140)	FD&C Yellow No. 5 (CI 19140)	1934-21-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 102)	x
FD&C Yellow No. 5 (CI 19140) Lake	FD&C Yellow 5		This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine, <5 ppb 2aminobiphenyl, and <5 ppb 1naphthylamine.	
FD&C Yellow No. 5 (CI 19140) Lake	FD&C Yellow 5		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
FD&C Yellow No. 5 (CI 19140) Zirconium Lake	FD&C Yellow 5		This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine, <5 ppb 2aminobiphenyl, and <5 ppb 1naphthylamine.	
FD&C Yellow No. 5 (CI 19140) Zirconium Lake	FD&C Yellow 5		Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
FD&C Yellow No. 5 (CI 19140) Zirconium Lake	Color additives subject to batch certification		Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
FD&C Yellow No. 6 (CI 15985)	FD&C YELLOW NO. 6		This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine.	
FD&C Yellow No. 6 (CI 15985)	FD&C Yellow No. 6 (CI 15985)		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
FD&C Yellow No. 6 (CI 15985) Lake	Color additives subject to batch certification	15790-07-5	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
FD&C Yellow No. 6 (CI 15985) Lake	FD&C YELLOW NO. 6	15790-07-5	This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine.	
FD&C Yellow No. 6 (CI 15985) Lake	FD&C Yellow No. 6 (CI 15985) Lake	15790-07-5	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
FENTHION	Fenthion	55389	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
FENTHION	Fenthion	55389	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
FENUGREEK	FENUGREEK		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FENUGREEK ABSOLUTE	FENUGREEK ABSOLUTE	68990-15-8	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
FERRIC ALUMINUM FERROCYANIDE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
FERRIC AMMONIUM FERROCYANIDE	Ferric Ammonium Ferrocyanide.	25869-00-5	The European Commission requires that this ingredient be free of cyanide.	
FERRIC AMMONIUM FERROCYANIDE	FERRIC AMMONIUM FERROCYANIDE	25869-00-5	Per the U.S. FDA., ferric ammonium ferrocyanide shall conform to the following specifications and shall be free of impurities other than those named to the extent that the other impurities may be avoided by good manufacturing practice: Oxalic acid or its salts, not more than 0.1 percent. Water soluble matter, not more than 3 percent. Water soluble cyanide, not more than 10 parts per million. Volatile matter, not more than 4 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Nickel (as Ni), not more than 200 parts per million. Cobalt (as Co), not more than 200 parts per million. Mercury (as Hg), not more than 1 part per million. Total iron (as Fe corrected for volatile matter), not less than 33 percent and not more than 39 percent.	x
FERRIC AMMONIUM FERROCYANIDE	FERRIC AMMONIUM FERROCYANIDE	25869-00-5	Per COSING, this ingredient must be free from cyanide ions.	x
FERRIC CITRATE	FERRIC CITRATE	3522-50-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5% in rinseoff products.	
FERRIC FERROCYANIDE	FERRIC FERROCYANIDE	14038-43-8	Per the U.S. FDA., ferric ferrocyanide shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Water soluble cyanide, not more than 10 parts per million. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Nickel (as Ni), not more than 200 parts per million. Cobalt (as Co), not more than 200 parts per million. Mercury (as Hg), not more than 1 part per million. Oxalic acid, not more than 0.1 percent. Water soluble matter, not more than 3 percent. Volatile matter, not more than 10 percent. Total iron (as Fe corrected for volatile matter), not less than 37 percent and not more than 45 percent.	x
FERROCHROME	Chromium Compounds	11114-46-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
FERROUS FUMARATE	FERROUS FUMARATE	141-01-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.0003%.	
FERULIC ACID	FERULICACID	1135-24-6	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
FERULIC ACID	FERULICACID	1135-24-6	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
FERULIC ACID	FERULICACID	1135-24-6	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
FIBROIN	FIBROIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FIBROIN/PEG-16/SODIUM ACRYLATE COPOLYMER	Fibroin/peg16/sodium Acrylate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FIBRONECTIN	Fibronectin	86088-83-7	FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
FIBRONECTIN	FIBRONECTIN	86088-83-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FLAVYLIUM, 3,3',4',5,7-PENTAHYDROXY-, CHLORIDE	FLAVYLIUM, 3,3',4',5,7-PENTAHYDROXY-, CHLORIDE	528-58-5	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E163)	x
FLAVYLIUM, 3,4',5,7-TETRAHYDROXY-3',5'-DIMETHOXY-, ACID ANION	FLAVYLIUM, 3,4',5,7-TETRAHYDROXY-3',5'-DIMETHOXY-, ACID ANION	10463-84-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E163)	x
FLAVYLIUM, 3,4',5,7-TETRAHYDROXY-3',5'-DIMETHOXY-, CHLORIDE	FLAVYLIUM, 3,4',5,7-TETRAHYDROXY-3',5'-DIMETHOXY-, CHLORIDE	643-84-5	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E163)	x
FLUORIDE ION	Fluoride	16984488	Health Canada restricts the use of this ingredient to nonoral products.	
FLUORIDE ION	Fluoride containing substances	16984-48-8	Health Canada prohibits fluoride containing substances in oral products. EXCEPTION: sodium fluoride, sodium monofluorophosphate, and stannous fluoride may be used in medicinal oral products, as defined by Health Canada, Oral Health Products Monograph.	
FLUORO C2-8 ALKYLDIMETHICONE	FLUORO C2-8 ALKYLDIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
FLUROSILICIC ACID	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
FOENICULUM VULGARE (FENNEL)	FOENICULUM VULGARE (FENNEL)		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
FOENICULUM VULGARE (FENNEL) EXTRACT	FOENICULUM VULGARE (FENNEL) EXTRACT		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FOENICULUM VULGARE (FENNEL) FRUIT EXTRACT	FOENICULUM VULGARE (FENNEL) FRUIT EXTRACT	84625398	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
FOENICULUM VULGARE (FENNEL) OIL	FOENICULUM VULGARE (FENNEL) OIL	8006846	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
FOENICULUM VULGARE (FENNEL) ROOT EXTRACT	FOENICULUM VULGARE (FENNEL) ROOT EXTRACT		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
FOENICULUM VULGARE (FENNEL) SEED EXTRACT	FOENICULUM VULGARE (FENNEL) SEED EXTRACT		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
FOENICULUM VULGARE (FENNEL) SEEDS	FOENICULUM VULGARE (FENNEL) SEEDS		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FOENICULUM VULGARE (FENNEL) TINCTURE	FOENICULUM VULGARE (FENNEL) TINCTURE		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
FORMALDEHYDE	Formaldehyde	50000	The European Commission restricts this ingredient to a maximum concentration of 5% (as formaldehyde) in nail hardening products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label. Required Warning: The European Commission requires the following warning text on the product label/package: 'Protect cuticles with grease or oil'; If the concentration of formaldehyde exceeds 0.05%, 'Contains formaldehyde'.	
FORMALDEHYDE	Formaldehyde	50000	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% (as formalin; 0.074% as formaldehyde or 0.118% as methylene glycol). Additionally, this ingredient cannot be used in hair smoothing products.	
FORMALDEHYDE	Formaldehyde	50000	Health Canada restricts this ingredient to a maximum concentration of 0.01% in nonaerosol products that release formaldehyde vapours (when used according to directions), 0.1% in oral products, 0.2% in nonoral cosmetics (when used as a preservative only), and 5% in nail hardening products (it must be sold with nail shields, directions for use and directions that inform the user about the presence of this substance in the cosmetic). This ingredient is prohibited in aerosol products. Required Warning: Health Canada requires the following warning text on the packaging/label of nail hardening products: 'This product contains formaldehyde which has the potential to cause skin sensitivity.'	
FORMALDEHYDE RESIN	Formaldehyde	50000	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% (as formalin; 0.074% as formaldehyde or 0.118% as methylene glycol). Additionally, this ingredient cannot be used in hair smoothing products.	
FORMALDEHYDE RESIN	Formaldehyde	50000	Health Canada restricts this ingredient to a maximum concentration of 0.01% in nonaerosol products that release formaldehyde vapours (when used according to directions), 0.1% in oral products, 0.2% in nonoral cosmetics (when used as a preservative only), and 5% in nail hardening products (it must be sold with nail shields, directions for use and directions that inform the user about the presence of this substance in the cosmetic). This ingredient is prohibited in aerosol products. Required Warning: Health Canada requires the following warning text on the packaging/label of nail hardening products: 'This product contains formaldehyde which has the potential to cause skin sensitivity.'	
FORMALDEHYDE SOLUTION (FORMALIN)	Formaldehyde	50000	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% (as formalin; 0.074% as formaldehyde or 0.118% as methylene glycol). Additionally, this ingredient cannot be used in hair smoothing products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FORMALDEHYDE SOLUTION (FORMALIN)	Methylene Glycol		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% (as formalin; 0.074% as formaldehyde or 0.118% as methylene glycol). Additionally, this ingredient cannot be used in hair smoothing products.	
FORMALDEHYDE SOLUTION (FORMALIN)	Formaldehyde	50000	Health Canada restricts this ingredient to a maximum concentration of 0.01% in nonaerosol products that release formaldehyde vapours (when used according to directions), 0.1% in oral products, 0.2% in nonoral cosmetics (when used as a preservative only), and 5% in nail hardening products (it must be sold with nail shields, directions for use and directions that inform the user about the presence of this substance in the cosmetic). This ingredient is prohibited in aerosol products. Required Warning: Health Canada requires the following warning text on the packaging/label of nail hardening products: 'This product contains formaldehyde which has the potential to cause skin sensitivity.'	
FORMALDEHYDE SOLUTION (FORMALIN)	METHYLENEGLYCOL	463570	Health Canada restricts this ingredient to a maximum concentration of 0.01% in nonaerosol products that release formaldehyde vapours (when used according to directions), 0.1% in oral products, 0.2% in nonoral cosmetics (when used as a preservative only), and 5% in nail hardening products (it must be sold with nail shields, directions for use and directions that inform the user about the presence of this substance in the cosmetic). This ingredient is prohibited in aerosol products. Required Warning: Health Canada requires the following warning text on the packaging/label of nail hardening products: 'This product contains formaldehyde which has the potential to cause skin sensitivity.'	
FORMIC ACID	Formic acid	64186	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 64 ppm of free acid.	
FRAGARIA ANANASSA (STRAWBERRY) SEED OIL	FRAGARIA ANANASSA (STRAWBERRY) SEED OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FRENCH GREEN CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
FRENCH PINK CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
FRUCTOSE	FRUCTOSE	57-48-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FUCOIDAN, FROM FUCUS VESICULOSUS	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
FUCOSE	FUCOSE	2438-80-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FUCUS SERRATUS	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FUCUS SERRATUS EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
FUCUS SERRATUS EXTRACT	FUCUS SERRATUS EXTRACT	94167-02-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FUCUS SPIRALIS EXTRACT	FUCUS SPIRALIS EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FUCUS VESICULOSIS (BLADDERWRACK) OIL	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
FUCUS VESICULOSUS	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
FUCUS VESICULOSUS	FUCUS VESICULOSUS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FUCUS VESICULOSUS EXTRACT	Fucus vesiculosus extract	84696139	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 5%	
FUCUS VESICULOSUS EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
FUCUS VESICULOSUS POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
FUCUS VESICULOSUS POWDER	FUCUS VESICULOSUS POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
FUEL GASES	Fuel gases	68476266	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
FUEL GASES, CRUDE OIL OF DISTILLATES	FUEL GASES, CRUDE OIL OF DISTILLATES	68476299	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
FUMARIC ACID	fumaric acid	110-17-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
FURFURACEA (TREEMOSS) EXTRACT	EVERNIA FURFURACEA (OAKMOSS LICHEN) EXTRACT	90028674	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
FURFURACEA (TREEMOSS) EXTRACT	FURFURACEA (TREEMOSS) EXTRACT	90028674	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
FURFURAL	2furaldehyde	98011	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.001 %	
FURFURAL	Furfural	98011	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0010% Category 2) 0.0010% Category 3) 0.0010% Category 4) 0.0010% Category 5A) 0.0010% Category 5B) 0.0010% Category 5C) 0.0010% Category 5D) 0.0010% Category 6) 0.0010% Category 7A) 0.0010% Category 7B) 0.0010% Category 8) 0.0010% Category 9) 0.0010% Category 10A) 0.0010% Category 10B) 0.0010% Category 11A) 0.0010% Category 11B) 0.0010% Category 12) 0.050%	
GALACTOARABINAN	GALACTOARABINAN	9036-66-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GALACTOSE, D-	GALACTOSE, D-	59-23-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GALACTOSYL FRUCTOSE	GALACTOSYL FRUCTOSE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GALACTURONIC ACID	GALACTURONIC ACID	552-12-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GAMMA TOCOPHEROLS	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
gamma-TERPINENE	GAMMATERPINENE	99854	The European Commission restricts this ingredient's peroxide content to less than 10 mmol/L (this limit applies to the substance and not the finished cosmetic product).	
GARCINIA INDICA SEED BUTTER	GARCINIA INDICA SEED BUTTER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
GAS OILS, HYDROTREATED	Gas oils, hydrotreated	97862787	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
GAS OILS, PARAFFINIC	Gas oils, paraffinic	93924335	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
GASES (PETROLEUM, LIGHT STEAM-CRACKED, BUTADIENE CONC.	GASES (PETROLEUM, LIGHT STEAMCRACKED, BUTADIENE CONC.	68955282	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
GASOLINE, NATURAL	Gasoline, natural	8006619	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
GELATIN	GELATIN	9000-70-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GELATIN/LYSINE/POLYACRYLAMIDE HYDROXYPROPYLTRIMONIUM CHLORIDE	GELATIN/LYSINE/POLYACRYLAMIDE HYDROXYPROPYLTRIMONIUM CHLORIDE		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
GELIDIELLA ACEROSA (RED MAPLEWEED) EXTRACT	GELIDIELLA ACEROSA (RED MAPLEWEED) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GELIDIUM CARTILAGINEUM (RED ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
GELLAN GUM	GELLAN GUM	71010-52-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GEOGARD 361	Benzoic acid	65850	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GEOGARD 361	benzyl alcohol	100516	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
GEOGARD 361	Phenoxyethanol		The Cosmetic Ingredient Review has determined that Phenoxyethanol (a component of several branded preservatives) is safe as used up to a concentration of 1%.	
GEOGARD 361	DEHYDROACETIC ACID	520456	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
GEOGARD 361	BENZETHONIUM CHLORIDE	121540	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5% in skin products and 0.02% in eye products.	
GEOGARD 361	Salicylic acid	69727	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
GEOGARD 361	SALICYLICACID	69727	Health Canada restricts this ingredient to a maximum concentration of 2%.	
GEOGARD 361	BENZETHONIUMCHLORIDE	121540	Health Canada restricts this ingredient to a maximum concentration of 0.2% in leaveon products and 0.3% in rinseoff products. Additionally, the ingredient cannot be used in products applied to mucous membranes.	
GEOGARD 361	BENZETHONIUMCHLORIDE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in rinseoff products (not applied to mucosa).	
GEOGARD 361	BENZETHONIUMCHLORIDE		The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
GEOGARD 361	BENZETHONIUMCHLORIDE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.2% in leaveon products (not applied to mucosa).	
GEOGARD 361	Phenoxyethanol		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1%.	
GEOGARD 361	SALICYLICACID		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.2%.	
GEOGARD ULTRA	Sodium benzoate	532321	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
GERANIAL	citral	141275	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.2% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.6% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.3% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.4% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GERANIAL	citral	141275	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.032 % Category 3) 0.10 % Category 4) 0.60 % Category 5A) 0.15 % Category 5B) 0.15 % Category 5C) 0.15 % Category 5D) 0.051 % Category 6) 0.35 % Category 7A) 0.20 % Category 7B) 0.20 % Category 8) 0.051 % Category 9) 1.2 % Category 10A) 1.2 % Category 10B) 4.2 % Category 11A) 0.051 % Category 11B) 0.051 % Category 12) No Restriction	
GERANIOL	Geraniol	106241	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
GERANIOL	Geraniol	106241	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.3% in lip products, 0.4% in deodorants/antiperspirants, 1.8% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 5.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 2.8% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 8.6% in mouthwashes, breath sprays, and toothpastes, 0.9% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
GERANIOL	Geraniol	106241	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.85 % Category 2) 0.25 % Category 3) 5.1 % Category 4) 4.7 % Category 5A) 1.2 % Category 5B) 1.2 % Category 5C) 1.2 % Category 5D) 1.2 % Category 6) 2.8 % Category 7A) 9.6 % Category 7B) 9.6 % Category 8) 0.50 % Category 9) 9.2 % Category 10A) 33 % Category 10B) 33 % Category 11A) 18 % Category 11B) 18 % Category 12) No Restriction	
Geranium oil, saponified	Citronellol	68916438	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
GERMABEN II	Diazolidinyl urea	78491028	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
GERMABEN II	Methylparaben	99763	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GERMABEN II	Propylparaben	94133	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
GEVUINA AVELLANA OIL	GEVUINA AVELLANA OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
GEVUINA AVELLANA SEED OIL	GEVUINA AVELLANA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
GHATTI GUM	GHATTI GUM	9000-28-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GIGARTINA PAPILLATA (RED ALGAE)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
GINKGO BILOBA (MAIDENHAIR TREE) LEAF	GINKGO BILOBA (MAIDENHAIR TREE) LEAF		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
GINKGO BILOBA (MAIDENHAIR TREE) LEAF EXTRACT	GINKGO BILOBA (MAIDENHAIR TREE) LEAF EXTRACT	90045-36-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
GLACIAL BAY MARINE CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
GLACIAL CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
GLUCANASE, BETA-	Betaglucanase	9074980	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
GLUCONIC ACID	GLUCONIC ACID	133-42-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLUCOSE	GLUCOSE	50-99-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLUTAMIC ACID	GLUTAMIC ACID	56-86-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLUTAMIC ACID, ZINC SALT, DL-	ZINC GLUTAMATE	1949151	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
GLUTAMIC ACID, ZINC SALT, DL-	GLUTAMIC ACID, ZINC SALT, DL	1949151	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
GLUTAMINE	GLUTAMINE	56-85-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLUTARAL	Glutaraldehyde (Pentane1,5dial)	111308	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
GLUTARAL	Glutaraldehyde	111308	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
GLUTARAL	Glutaral	111308	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5% in rinseoff products, and may not be used in aerosol products. Additionally, CIR concluded there were insufficient data to assess safety of use in leave-on products; therefore, it may not be used in leave-on products.	x

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GLYCERETH-12	GLYCERETH-12	31694-55-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GLYCERETH-18	GLYCERETH-18		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GLYCERETH-20	GLYCERETH-20	31694-55-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GLYCERETH-26	Glycereth26	31694-55-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
GLYCERETH-26	GLYCERETH-26	31694-55-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GLYCERETH-26	GLYCERETH-26	31694-55-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GLYCERETH-31	GLYCERETH-31	31694-55-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GLYCERETH-7	GLYCERETH-7	31694-55-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GLYCERETH-7 BENZOATE	Benzoate	139247-28-2	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
GLYCERIN	Glycerin	56815	Health Canada requires manufacturers of oral and leaveon products containing glycerin to ensure the raw material used is within the specifications of an accepted pharmacopoeia with respect to diethylene glycol (DEG) impurities.	
GLYCERIN	GLYCERIN	56-81-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL ACETATE	GLYCERYL ACETATE	26446-35-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL CAPRATE	GLYCERYL CAPRATE	26402-22-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%.	
GLYCERYL CAPRYLATE	GLYCERYL CAPRYLATE	26402266	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 12%.	
GLYCERYL CITRATE/LACTATE/LINOLEATE/OLEATE	GLYCERYL CITRATE/LACTATE/LINOLEATE/OLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL COCOATE/CITRATE/LACTATE	GLYCERYL COCOATE/CITRATE/LACTATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL DIMALTODEXTRIN	GLYCERYL DIMALTODEXTRIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL ETHYLHEXANOATE/STEARATE/ ADIPATE	GLYCERYL ETHYLHEXANOATE/STEARATE/ ADIPATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL HEPTANOATE	GLYCERYL HEPTANOATE	26402-24-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL MONOSTEARATE	GLYCERYL MONOSTEARATE	31566311	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 18.9%.	
GLYCERYL MYRISTATE	GLYCERYL MYRISTATE	589-68-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	

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GLYCERYL OLEATE/ELAIDATE	GLYCERYL OLEATE/ELAIDATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL OLIVATE	GLYCERYL OLIVATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL PALMITOLEATE	GLYCERYL PALMITOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL POLYACRYLATE	GLYCERYL POLYACRYLATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
GLYCERYL SESQUIOLEATE	GLYCERYL SESQUIOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL STARCH	GLYCERYL STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL STEARATE SE	GLYCERYL STEARATE SE	11099073	The Cosmetics Ingredient Review panel concludes that this substance is safe as used up to a concentration of 10%.	
GLYCERYL STEARATE/ PEG-100 STEARATE	Glyceryl Stearate/ Peg100 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
GLYCERYL STEARATE/ACETATE	GLYCERYL STEARATE/ACETATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
GLYCERYL STEARATE/MALATE	GLYCERYL STEARATE/MALATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCERYL THIOGLYCOLATE	GLYCERYL THIOGLYCOLATE	30618849	The European Commission restricts this ingredient to a maximum concentration of 8% (calculated as thioglycolic acid) in hair waving products and 11% (calculated as thioglycolic acid) in hair straightening products. Required Warning: The European Commission requires the following conditions of use on the label/package of general and professional use hair waving or straightening products: 'May cause sensitization in the event of skin contact'; 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'; 'Wear suitable gloves'. Additionally, the following warning text are required: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Lastly, the following warning must also be labeled in addition to the above on professional use hair waving or straightening products: 'For professional use only'	
GLYCERYL THIOGLYCOLATE	GLYCERYL THIOGLYCOLATE	30618-84-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
GLYCERYL TRIACETYL HYDROXYSTEARATE	GLYCERYL TRIACETYL HYDROXYSTEARATE	27233-00-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 20%.	
GLYCERYL TRIACETYL RICINOLEATE	GLYCERYL TRIACETYL RICINOLEATE	101-34-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 49%.	
GLYCERYL TRIPALMATE/PALM KERNELATE/OLIVATE/MACADAMATE/RAPESEEDATE	GLYCERYL TRIPALMATE/PALM KERNELATE/OLIVATE/MACADAMATE/RAPESEEDATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GLYCERYL UNDECYL DIMETHICONE	GLYCERYL UNDECYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
GLYCERYL UNDECYL DIMETHICONE	GLYCERYL UNDECYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
GLYCINE	GLYCINE	56-40-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA (SOYBEAN) FLOUR	GLYCINE SOJA (SOYBEAN) FLOUR	68513-95-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA (SOYBEAN) GERM EXTRACT	GLYCINE SOJA (SOYBEAN) GERM EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA (SOYBEAN) LIPIDS	GLYCINE SOJA (SOYBEAN) LIPIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA (SOYBEAN) OIL UNSAPONIFIABLES	GLYCINE SOJA (SOYBEAN) OIL UNSAPONIFIABLES	91770-67-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.2%	
GLYCINE SOJA (SOYBEAN) PHYTOPLACENTA EXTRACT	GLYCINE SOJA (SOYBEAN) PHYTOPLACENTA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA (SOYBEAN) SEED	GLYCINE SOJA (SOYBEAN) SEED		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA (SOYBEAN) SEED EXTRACT	GLYCINE SOJA (SOYBEAN) SEED EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA (SOYBEAN) SPROUT EXTRACT	GLYCINE SOJA (SOYBEAN) SPROUT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCINE SOJA PROTEIN	GLYCINE SOJA PROTEIN	9010-10-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOFUROL	Glycofurol	31692-85-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
GLYCOL DIBEHENATE	GLYCOL DIBEHENATE	79416-55-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOL DIETHYLHEXANOATE	GLYCOL DIETHYLHEXANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOL DILAURATE	GLYCOL DILAURATE	624-04-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOL DIMETHACRYLATE/VINYL ALCOHOL CROSSPOLYMER	GLYCOL DIMETHACRYLATE/VINYL ALCOHOL CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
GLYCOL DIMETHACRYLATE/VINYL ALCOHOL CROSSPOLYMER	GLYCOL DIMETHACRYLATE/VINYL ALCOHOL CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GLYCOL DIOLEATE	GLYCOL DIOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOL DIPALMATE/PALM KERNELATE/OLIVATE/MACADAMIA	GLYCOL DIPALMATE/PALM KERNELATE/OLIVATE/MACADAMIA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOL DIPIVALATE	GLYCOL DIPIVALATE	20267-20-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOL DISTEARATE	Glycol distearate	627-83-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%.	
GLYCOL DITALLOWATE	GLYCOL DITALLOWATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCOL STEARATE	GLYCOL STEARATE	111-60-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
GLYCOL STEARATE SE	GLYCOL STEARATE SE	86418-55-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
GLYCOLIC ACID	Glycolic Acid	79141	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 at final formulation when formulated to avoid increasing sun sensitivity or when directions for use include the daily use of sun protection. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
GLYCOLIC ACID	GLYCOLICACID	79141	Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	
GLYCOLIC ACID POLYMER	Glycolic Acid	79141	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 at final formulation when formulated to avoid increasing sun sensitivity or when directions for use include the daily use of sun protection. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GLYCOLIC ACID POLYMER	GLYCOLICACID	79141	Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	
GLYCOLIC ACID, CALCIUM SALT	CALCIUM GLYCOLATE	26257-13-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
GLYCOLIC ACID, ETHYL ESTER	ETHYL GLYCOLATE	623-50-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
Glycols, 1,2-, C12-16, ethoxylated propoxylated	Glycols, 1,2, C1216, ethoxylated propoxylated	154248-98-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
GLYCOLS, POLYETHYLENE, MONO(P-OCTYLPHENYL) ETHER	Glycols, Polyethylene, Mono(POctylphenyl) Ether	26636-32-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
GLYCOPROTEINS	Glycoprotein	66455-27-4	FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
GLYCOSAMINOGLYCANS	Glycosaminoglycans	94945-04-7	FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
GLYCOSPHINGOLIPIDS	Glycosphingolipids		FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
GLYCYRRHETINIC ACID	GLYCYRRHETINIC ACID	471-53-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: pesticides/PCB, toxic metals, and heavy metals	
GLYCYRRHETINYL STEARATE	GLYCYRRHETINYL STEARATE	4827-59-2	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: pesticides/PCBs, toxic metals, and heavy metals.	
GLYCYRRHIZA GLABRA (LICORICE)	GLYCYRRHIZA GLABRA (LICORICE)	68916-91-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GLYCYRRHIZA GLABRA (LICORICE) ROOT	GLYCYRRHIZA GLABRA (LICORICE) ROOT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	
GLYCYRRHIZA GLABRA (LICORICE) ROOT EXTRACT	GLYCYRRHIZA GLABRA (LICORICE) ROOT EXTRACT	84775-66-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	
GLYCYRRHIZA URALENSIS (LICORICE) ROOT EXTRACT	GLYCYRRHIZA URALENSIS (LICORICE) ROOT EXTRACT	68916-91-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
GLYCYRRHIZINIC ACID	GLYCYRRHIZIC ACID	1405-86-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: pesticides/PCB, toxic metals, and heavy metals	
GLYOXAL	GLYOXAL (FORMALDEHYDE RELEASER)	107222	The European Commission restricts this substance to a maximum concentration of 100 mg/kg." Skin Deep classification should be: "Restricted use in European cosmetics, Annex III, Directive 194	
GLYOXAL	Glyoxal	107222	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1.25% in nail products.	
GOLD	Gold		The European Commission restricts the silver and copper contents of this ingredient to maximum concentrations of 7% and 4%, respectively.	
GOLD (CI 77480)	Gold	7440-57-5	The European Commission restricts the silver and copper contents of this ingredient to maximum concentrations of 7% and 4%, respectively.	
GOLD (CI 77480)	GOLD (CI 77480)	7440-57-5	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E175)	x
GOSSYPIMUM HERBACEUM (COTTON) SEED OIL	COTTONSEED (GOSSYPIMUM) OIL	8001-29-4	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: gossypol, heavy metals, and pesticides.	
GOSSYPIMUM HERBACEUM (COTTON) SEED OIL	gossypium (cotton) seed oil	8001-29-4	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: gossypol, heavy metals, and pesticides.	
GRAPE SEED OIL PEG-8 ESTERS	Grape Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
GRAPE SEED OIL PEG-8 ESTERS	GRAPE SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
GRAPHITE	CLAYS AND MINERALS	7782-42-5	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
GREEN CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
GUAIAZULENE	GUAIAZULENE	489-84-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
GUAIAZULENE	GUAIAZULENE	489-84-9	Per the U.S. FDA., guaiazulene shall conform to the following specifications and shall be free from impurities, other than those named, to the extent that such other impurities may be avoided by good manufacturing practice. Melting point, 30.5 °C to 31.5 °C. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million. Total color, not less than 99 percent.	x
GUANIDINE, N-CYANO-N'-METHYL-N''-(2-(((5-METHYL-1H-IMIDAZOL-4-YL)METHYL)THIO)ETHYL)-	Cimetidine	51481619	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	65497-29-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	65497-29-2	(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%	
GUM KARAYA	GUM KARAYA	9000-36-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HAEMATOCOCCUS PLUVIALIS (ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HAIR KERATIN AMINO ACIDS	HAIR KERATIN AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HAKKA YU	MENTHA PIPERITA (PEPPERMINT) OIL		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
HALIDRYS SILIQUOSA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HALIDRYS SILIQUOSA EXTRACT	HALIDRYS SILIQUOSA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Halogen Containing Mineral Acid	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
HALOPTERIS SCOPARIA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HALOPTERIS SCOPARIA EXTRACT	HALOPTERIS SCOPARIA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HAMAMELIS VIRGINIANA (WITCH HAZEL) BARK EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696195	This substance may not be produced with, or contain detectable levels of, cyclopentasiloxane.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) BARK EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696195	This substance must contain less than 20 ppm heavy metal, 10 ppm lead, 2 ppm arsenic, and 1 ppm cadmium	
HAMAMELIS VIRGINIANA (WITCH HAZEL) BARK EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) BARK EXTRACT		The Cosmetic Ingredient Review panel has determined this ingredient to be safe as used when formulated to be nonirritating and nonsensitizing up to a concentration of 4.3%.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) BARK EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT		Products containing this substance must not contain detectable levels of phenol.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696195	This substance may not be produced with, or contain detectable levels of, cyclopentasiloxane.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696195	This substance must contain less than 20 ppm heavy metal, 10 ppm lead, 2 ppm arsenic, and 1 ppm cadmium	
HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696-19-5	The Cosmetic Ingredient Review panel has determined this ingredient to be safe as used when formulated to be nonirritating and nonsensitizing up to a concentration of 1.8%.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696-19-5	Products containing this substance must not contain detectable levels of phenol.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696195	Products containing this substance must contain less than 0.01% safrole.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HAMAMELIS VIRGINIANA (WITCH HAZEL) LEAF EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696195	This substance may not be produced with, or contain detectable levels of, cyclopentasiloxane.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) LEAF EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696195	This substance must contain less than 20 ppm heavy metal, 10 ppm lead, 2 ppm arsenic, and 1 ppm cadmium	
HAMAMELIS VIRGINIANA (WITCH HAZEL) LEAF EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) BARK EXTRACT	84696-19-5	The Cosmetic Ingredient Review panel has determined this ingredient to be safe as used when formulated to be nonirritating and nonsensitizing up to a concentration of 4.3%.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) LEAF EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) EXTRACT	84696-19-5	Products containing this substance must not contain detectable levels of phenol.	
HAMAMELIS VIRGINIANA (WITCH HAZEL) LEAF EXTRACT	HAMAMELIS VIRGINIANA (WITCH HAZEL) LEAF EXTRACT	84696-19-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
HAMAMELIS VIRGINIANA (WITCH HAZEL) WATER	HAMAMELIS VIRGINIANA (WITCH HAZEL) WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
HASLEA OSTREARIA (BLUE ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HAZEL SEED OIL PEG-8 ESTERS	Hazel Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HAZEL SEED OIL PEG-8 ESTERS	HAZEL SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HC BLUE 2	HC BLUE 2	33229344	The European Commission restricts this ingredient to a maximum concentration of 2.8% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Can cause allergic reaction.'	
HC BLUE 2	HC BLUE 2	33229344	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in hair dyes.	
HC BLUE 2	HC BLUE 2	33229-34-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HC BLUE NO. 11	HC BLUE NO. 11	23920152	The European Commission restricts this ingredient to a maximum concentration of 2.0% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HC BLUE NO. 12	HC BLUE NO. 12	132885859	The European Commission restricts this ingredient to a maximum concentration of 0.75% (as hydrochloride) applied to hair after mixing under oxidative conditions in oxidative hair dye products and 1.5% (as hydrochloride) in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
HC BLUE NO. 14	HC BLUE NO. 14	99788757	The European Commission restricts this ingredient to a maximum concentration of 0.3% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
HC BLUE NO. 15	Phosphoric acid compound with 4[(2,6dichlorophenyl) (4imino 3,5dimethyl2,5cyclohexadien1 ylidene) methyl] 2,6dimethylaniline (1:1)	74578102	(*) The European Commission restricts this ingredient to a maximum concentration of 0.2% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 0.2% in nonoxidative hair dye products. Required Warning: (*) The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: you have a rash on your face or sensitive, irritated and damaged scalp, you have ever experienced any reaction after colouring your hair, you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of nonoxidative hair dyes: 'Can cause allergic reactions.' Lastly, the European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'This product can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: has a rash on the face or sensitive, irritated and damaged scalp, has experienced a reaction after colouring hair or eyelashes, has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'	
HC ORANGE NO. 1	HC ORANGE NO. 1	54381087	The European Commission restricts this ingredient to a maximum concentration of 1.0% in nonoxidative hair dye products.	
HC ORANGE NO. 1	HC ORANGE 1	54381-08-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3% in hair dyes.	
HC ORANGE NO. 1	HC ORANGE NO. 1	54381-08-7	The Cosmetic Ingredient Review concludes that HC Orange No. 1 is safe for use in hair dye formulations at concentrations up to 3.0%.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HC ORANGE NO. 2	HC ORANGE NO. 2	85765486	The European Commission restricts this ingredient to a maximum concentration of 1.0% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
HC RED 3	HC RED 3	2871-01-4	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
HC RED 3	HC RED 3	2871-01-4	The Cosmetic Ingredient Review specifies that this ingredient should not be not be used in products containing N-nitrosating agents.	x
HC RED NO. 1	HC RED NO. 1	2784896	The European Commission restricts this ingredient to a maximum concentration of 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions.'	
HC RED NO. 1	HC RED 1	2784896	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
HC RED NO. 10	HC RED NO. 10	95576899	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.0% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
HC RED NO. 11	HC RED NO. 11	95576924	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.0% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
HC RED NO. 13	HC RED NO. 13	94158131	The European Commission restricts this ingredient to a maximum concentration of 1.25% (as hydrochloride) applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 2.5% (as hydrochloride) in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
HC RED NO. 7	HC RED NO. 7	24905871	The European Commission restricts this ingredient to a maximum concentration of 1.0% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HC RED NO. 7	HC RED NO. 7	24905-87-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HC VIOLET NO. 1	HC VIOLET NO. 1	82576758	The European Commission restricts this ingredient to a maximum concentration of 0.25% when applied to hair in oxidative hair dye products, and 0.28% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
HC VIOLET NO. 2	HC VIOLET NO. 2	104226199	The European Commission restricts this ingredient to a maximum concentration of 2.0% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Can cause allergic reaction.'	
HC YELLOW 2	HC YELLOW 2	4926550	The European Commission restricts this ingredient to a maximum concentration of 0.75% applied to hair after mixing under oxidative conditions in oxidative hair dye products and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause allergic reactions.'	
HC YELLOW 2	HC YELLOW NO. 2	4926550	The European Commission restricts this ingredient to a maximum concentration of 0.75% applied to hair after mixing under oxidative conditions in oxidative hair dye products and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause allergic reactions.'	
HC YELLOW 2	HC YELLOW 2	4926550	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
HC YELLOW 4	HC YELLOW 4	59820438	The European Commission restricts this ingredient to a maximum concentration of 1.5% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
HC YELLOW 4	HC YELLOW 4	59820438	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
HC YELLOW 4	HC YELLOW 4	59820-43-8	Per COSING, the maximum concentration in ready to use preparation is 1.5%.	x
HC YELLOW 4	HC YELLOW 4	59820-43-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HC YELLOW NO. 10	HC YELLOW NO. 10	109023838	The European Commission restricts this ingredient to a maximum concentration of 0.1% in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HC YELLOW NO. 13	HC YELLOW NO. 13	10442838	The European Commission restricts this ingredient to a maximum concentration of 2.5% applied to hair after mixing under oxidative conditions. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
HC YELLOW NO. 2	HC YELLOW 2	4926550	The European Commission restricts this ingredient to a maximum concentration of 0.75% applied to hair after mixing under oxidative conditions in oxidative hair dye products and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause allergic reactions.'	
HC YELLOW NO. 2	HC YELLOW NO. 2	4926550	The European Commission restricts this ingredient to a maximum concentration of 0.75% applied to hair after mixing under oxidative conditions in oxidative hair dye products and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause allergic reactions.'	
HC YELLOW NO. 2	HC YELLOW 2	4926550	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
HC YELLOW NO. 2	HC YELLOW NO. 2	4926-55-0	The CIR Expert Panel concludes that HC Yellow No. 2 is safe for use in hair dyes at concentrations up to 3%	x
HC YELLOW NO. 5	HC YELLOW NO. 5	56932-44-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1.6%.	
HC YELLOW NO. 7	HC YELLOW NO. 7	104226213	The European Commission restricts this ingredient to a maximum concentration of 0.25% in nonoxidative hair dye products.	
HC YELLOW NO. 9	HC YELLOW NO. 9	86419694	The European Commission restricts this ingredient to a maximum concentration of 0.5% (calculated as hydrochloride) in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
HDI/ TRIMETHYLOL HEXYLLACTONE CROSSPOLYMER	HDI/ TRIMETHYLOL HEXYLLACTONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HDI/PPG/POLYCAPROLACTONE CROSSPOLYMER	HDI/PPG/POLYCAPROLACTONE CROSSPOLYMER	302791-95-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HECTORITE	HECTORITE	12173-47-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15% (up to 100% in skin cleansers).	
HECTORITE	CLAYS AND MINERALS	12173-47-6	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
HEILMOOR CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
HELIANTHUS ANNUUS (SUNFLOWER)	HELIANTHUS ANNUUS (SUNFLOWER)		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL UNSAPONIFIABLES	HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL UNSAPONIFIABLES		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
HEMA ACETOACETATE	HEMAACETOACETATE	21282-97-3	The Cosmetic Ingredient Review restricts the use of this ingredient to nail enhancement products when skin contact is avoided. Additionally, products containing this ingredient should be accompanied with directions to avoid skin contact.	
HEMATITE	HEMATITE	1317-60-8	Per the U.S. FDA., iron oxides shall conform to the following specifications, all on an "as is" basis: Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 10 parts per million. Mercury (as Hg), not more than 3 parts per million.	x
HEMICELLULASE, FROM ASPERGILLUS NIGER	Hemicellulase (from Aspergillus niger)	9025563	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
HEXACHLOROPHENE	Hexachlorophene	70304	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
HEXACHLOROPHENE	Hexachlorophene	70304	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
HEXAMIDINE	HEXAMIDINE	3811-75-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane.	
HEXAMIDINE	Benzenecarboximidamide, 4,4'-(1,6hexanediybis(oxy))bis, and its salts (including isothionate and phydroxybenzoate)	3811-75-4	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
HEXAMIDINE DIISETHIONATE	HEXAMIDINE DIISETHIONATE	659-40-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane.	
HEXAMIDINE DIISETHIONATE	Benzenecarboximidamide, 4,4'-(1,6hexanediybis(oxy))bis, and its salts (including isothionate and phydroxybenzoate)	659-40-5	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
HEXAMIDINE PARABEN	Benzenecarboximidamide, 4,4'-(1,6hexanediybis(oxy))bis, and its salts (including isothionate and phydroxybenzoate)	93841-83-9	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
HEXANEDIOL	HEXANEDIOL	629-11-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HEXANEDIOL DISTEARATE	HEXANEDIOL DISTEARATE	26730-92-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HEXAPEPTIDE-12	HEXAPEPTIDE-12		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HEXASODIUM (DI[N-(3-(4-[5-(5-AMINO-3-METHYL-1-PHENYLPYRAZOL-4-YL-AZO)-2,4-DISULFO-ANILINO]-6-CHLORO-1,3,5-TRIAZIN-2-YLAMINO)PHENYL)-SULFAMOYL](DI-SULFO)-PHTHALOCYANINATO)NICKEL	Nickel Compounds	151436-99-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
HEXETIDINE	5Pyrimidinamine, 1,3bis(2ethylhexyl)hexahydro5methyl	141946	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
HEXYL BENZOATE	Benzoate	6789-88-4	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HEXYL CINNAMAL	HEXYL CINNAMAL	101860	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
HEXYL CINNAMAL	αHexyl cinnamic aldehyde	101860	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.7% in lip products, 0.9% in deodorants/antiperspirants, 3.6% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 10.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 5.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 17.1% in mouthwashes, breath sprays, and toothpastes, 1.8% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
HEXYL SALICYLATE	Hexyl salicylate	6259763	The International Fragrance Association restricts this ingredient to a maximum concentration of 1% in lip products, 1.3% in deodorants/antiperspirants, 5.3% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 16% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 8.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 25.7% in mouthwashes, breath sprays, and toothpastes, 2.7% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
HEXYL SALICYLATE	Hexyl salicylate	6259763	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.092 % Category 2) 0.80 % Category 3) 0.25 % Category 4) 6.5 % Category 5A) 2.7 % Category 5B) 0.30 % Category 5C) 0.46 % Category 5D) 0.10 % Category 6) 0.0092 % Category 7A) 0.38 % Category 7B) 0.38 % Category 8) 0.10 % Category 9) 1.2 % Category 10A) 1.2 % Category 10B) 2.2 % Category 11A) 0.10 % Category 11B) 0.10 % Category 12) 64 %	
HEXYLDECETH-2	HEXYLDECETH2	52609195	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HEXYLDECETH-20	HEXYLDECETH20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HEXYLDECYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HEXYLDECYL STEARATE	HEXYLDECYL STEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HEXYLDODECYL SALICYLATE	HEXYLDODECYL SALICYLATE		The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
HEXYLENE GLYCOL	Hexylene glycol	107415	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
HIMANTHALIA ELONGATA (BROWN ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HIMANTHALIA ELONGATA (BROWN ALGAE) EXTRACT	HIMANTHALIA ELONGATA (BROWN ALGAE) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HIMANTHALIA ELONGATA POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HIMANTHALIA ELONGATA POWDER	HIMANTHALIA ELONGATA POWDER	223751-70-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HINOKITIOL	Hinokitiol	499-44-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in products meant to be applied to the mucosa.	
HINOKITIOL	Hinokitiol	499-44-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in leaveon products (not applied to mucosa).	
HIPPOPHAE RHAMNOIDES (SEA BUCKTHORN) OIL	HIPPOPHAE RHAMNOIDES OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
HISTIDINE	HISTIDINE	71-00-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HISTIDINE HCL	HISTIDINE HCL	645-35-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HIZIKIA FUSIFORME EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HOKKAIDO AKAN CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
HOMOSALATE	HOMOMENTHYLSALICYLATE	118-56-9	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10%.	
HOMOSALATE	HOMOSALATE	118-56-9	Per COSING, the maximum concentration in RTU preparation is 10%.	x
HONEY	Honey	8028-66-8	This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HONEY	Honey	8028-66-8	The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
HONEY	Honey	8028-66-8	The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
HONEY COMB	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
HONEY COMB	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
HONEY COMB	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
HONEY EXTRACT	Honey	91052-92-5	This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
HONEY EXTRACT	Honey	91052-92-5	The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
HONEY EXTRACT	HONEY EXTRACT	91052-92-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HUILE MINERALE	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
HUMAN PLACENTAL ENZYMES	HUMANPLACENTALENZYMES		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HUMAN PLACENTAL EXTRACT	HUMANPLACENTALEXTRACTS		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HUMAN PLACENTAL LIPIDS	HUMANPLACENTALLIPIDS		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HUMAN PLACENTAL PROTEIN	HUMANPLACENTALPROTEIN		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HUMAN UMBILICAL EXTRACT	HUMANUMBILICALEXTRACT		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HUMULUS LUPULUS (HOPS)	HUMULUS LUPULUS (HOPS)		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
HUMULUS LUPULUS (HOPS) CONE OIL	HUMULUS LUPULUS (HOPS) CONE OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
HUMULUS LUPULUS (HOPS) EXTRACT	HUMULUS LUPULUS (HOPS) EXTRACT	8016-25-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
HUMULUS LUPULUS (HOPS) EXTRACT	HUMULUS LUPULUS (HOPS) EXTRACT	8016-25-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
HYACINTHUS ORIENTALIS (HYACINTH) FLOWER EXTRACT	HYACINTHUS ORIENTALIS (HYACINTH) FLOWER EXTRACT	94333752	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
HYACINTHUS ORIENTALIS (HYACINTH) FLOWER EXTRACT	HYACINTHUS ORIENTALIS (HYACINTH) FLOWER EXTRACT	94333752	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYACINTHUS ORIENTALIS (HYACINTH) LEAF EXTRACT	HYACINTHUS ORIENTALIS (HYACINTH) FLOWER EXTRACT	94333752	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
HYACINTHUS ORIENTALIS (HYACINTH) LEAF EXTRACT	HYACINTHUS ORIENTALIS (HYACINTH) LEAF EXTRACT	94333752	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYACINTHUS ORIENTALIS (HYACINTH) LEAF EXTRACT	HYACINTHUS ORIENTALIS (HYACINTH) FLOWER EXTRACT	94333752	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYACINTHUS ORIENTALIS (HYACINTH) LEAF EXTRACT	HYACINTHUS ORIENTALIS (HYACINTH) LEAF EXTRACT	94333752	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYACINTHUS ORIENTALIS EXTRACT	HYACINTHUS ORIENTALIS EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
HYACINTHUS ORIENTALIS EXTRACT	HYACINTHUS ORIENTALIS EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYALURONIC ACID	HYALURONIC ACID	9004-61-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
HYDRATED SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDRATROPIC ALDEHYDE	2PHENYLPROPIONALDEHYDE	93538	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.01% in deodorants/antiperspirants, 0.06% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.17% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.09% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.28% in mouthwashes, breath sprays, and toothpastes, 0.03% in intimate wipes, and baby wipes, 0.4% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 1.9% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
HYDRATROPIC ALDEHYDE	2PHENYLPROPIONALDEHYDE	93538	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.029% Category 2) 0.0087% Category 3) 0.096% Category 4) 0.16% Category 5A) 0.041% Category 5B) 0.041% Category 5C) 0.041% Category 5D) 0.014% Category 6) 0.096% Category 7A) 0.19% Category 7B) 0.19% Category 8) 0.014% Category 9) 0.32% Category 10A) 0.32% Category 10B) 0.77% Category 11A) 0.014% Category 11B) 0.014% Category 12) 31%	
HYDRATROPIC ALDEHYDE	2PHENYLPROPIONALDEHYDE	1340110	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.029% Category 2) 0.0087% Category 3) 0.096% Category 4) 0.16% Category 5A) 0.041% Category 5B) 0.041% Category 5C) 0.041% Category 5D) 0.014% Category 6) 0.096% Category 7A) 0.19% Category 7B) 0.19% Category 8) 0.014% Category 9) 0.32% Category 10A) 0.32% Category 10B) 0.77% Category 11A) 0.014% Category 11B) 0.014% Category 12) 31%	
HYDRATROPIC ALDEHYDE	2PHENYLPROPIONALDEHYDE	34713707	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.029% Category 2) 0.0087% Category 3) 0.096% Category 4) 0.16% Category 5A) 0.041% Category 5B) 0.041% Category 5C) 0.041% Category 5D) 0.014% Category 6) 0.096% Category 7A) 0.19% Category 7B) 0.19% Category 8) 0.014% Category 9) 0.32% Category 10A) 0.32% Category 10B) 0.77% Category 11A) 0.014% Category 11B) 0.014% Category 12) 31%	
HYDROCARBON OILS, AROM., MIXED WITH POLYETHYLENE AND POLYPROPYLENE, PYROLYZED, LIGHT OIL FRACTION	HYDROCARBON OILS, AROM., MIXED WITH POLYETHYLENE AND POLYPROPYLENE, PYROLYZED, LIGHT OIL FRACTION	100801636	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
HYDROCARBON OILS, AROM., MIXED WITH POLYETHYLENE, PYROLYZED, LIGHT OIL FRACTION	HYDROCARBON OILS, AROM., MIXED WITH POLYETHYLENE, PYROLYZED, LIGHT OIL FRACTION	100801658	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
HYDROCARBON OILS, AROM., MIXED WITH POLYSTYRENE, PYROLYZED, LIGHT OIL FRACTION	HYDROCARBON OILS, AROM., MIXED WITH POLYSTYRENE, PYROLYZED, LIGHT OIL FRACTION	100801669	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
HYDROCOTYL (CENTELLA ASIATICA)	Centella asiatica derived ingredients		This Cosmetics Ingredient Review Panel found that these substances were safe as used up to a concentration of 0.5% when formulated to be non-sensitizing.	x
HYDROGEN DIMETHICONE	HYDROGEN DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROGEN DIMETHICONE/OCTYL SILSESQUIOXANE COPOLYMER	HYDROGEN DIMETHICONE/OCTYL SILSESQUIOXANE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGEN PEROXIDE	Hydrogen peroxide	7722841	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. Concentration of H2O2 present or	
HYDROGEN PEROXIDE	HYDROGENPEROXIDE	7722841	Health Canada requires manufacturers of oral products containing peroxides or peroxidegenerating compounds to submit the following information: data on the pH of the cosmetic product, when it is applied to the tooth or teeth, i.e. that the pH is greater than or equal to 4.0; product labelling demonstrating that all cautionary statement requirements have been met. If an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit safety evidence that the product does not cause the saliva or soft tissue of the oral cavity to exceed 3% hydrogen peroxide, and is safe when used as directed. Required Warning: Health Canada requires the following warning text on the package/label of oral products: 'If irritation (such as redness, swelling, soreness) of the gums or the mouth occurs, discontinue use and consult a dentist'; 'Products containing peroxides are not recommended for use by children under 12 years of age'; 'Use for periods of longer than 14 days is to be only under the supervision of a dentist'; 'Avoid swallowing the cosmetic or part thereof'; 'Avoid contact of the product with the eye'; 'Avoid direct contact of the active surface of the tooth whitening product with the gums and/or salivary flow.'	
HYDROGEN PEROXIDE	HYDROGEN PEROXIDE	7722-84-1	According to Section 13 of Canada's Cosmetic Regulations the pH of oral products containing this ingredient must be greater than or equal to 4.0. Additionally, if an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit a clinical study to demonstrate the salivary peroxide levels do not exceed 3% during the use of the product as per the directions of use.	x
HYDROGEN PEROXIDE	HYDROGEN PEROXIDE	7722-84-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROGENATED BUTYLENE/ ETHYLENE/ STYRENE COPOLYMER	HYDROGENATED BUTYLENE/ ETHYLENE/ STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED C12-18 TRIGLYCERIDES	Hydrogenated C1218 Triglycerides		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 39%	
HYDROGENATED CASTOR OIL	Hydrogenated Castor Oil	8001783	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 39%	
HYDROGENATED CASTOR OIL PEG- 8 ESTERS	Hydrogenated Castor Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HYDROGENATED CASTOR OIL PEG- 8 ESTERS	HYDROGENATED CASTOR OIL PEG- 8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HYDROGENATED COCO- GLYCERIDES	HYDROGENATED COCOGLYCERIDES	91744422	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 41%.	
HYDROGENATED COCONUT ACID	HYDROGENATED COCONUT ACID	68938-15-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
HYDROGENATED COTTONSEED GLYCERIDE	HYDROGENATED COTTONSEED GLYCERIDE	61789-07-9	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: gossypol, heavy metals, and pesticides.	
HYDROGENATED COTTONSEED OIL	HYDROGENATED COTTONSEED OIL	68334-00-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 24%.	
HYDROGENATED ETHYLENE/ PROPYLENE/ STYRENE COPOLYMER	HYDROGENATED ETHYLENE/ PROPYLENE/ STYRENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED GRAPESEED OIL	HYDROGENATED GRAPESEED OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
HYDROGENATED HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
HYDROGENATED HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
HYDROGENATED HONEY	HYDROGENATED HONEY		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED JOJOBA OIL	HYDROGENATED JOJOBA OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 31%.	
HYDROGENATED LANOLIN	HYDROGENATED LANOLIN	8031-44-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
HYDROGENATED LARD	HYDROGENATED LARD	73138-67-7	The Cosmetic Ingredient Review restricts the lead, arsenic, mercury, and total PCB/pesticide contents of this ingredient to maximum concentrations of 0.1 ppm, 3 ppm, 1 ppm, and 40 ppm (with 10 ppm for any specific residue), respectively.	
HYDROGENATED LARD GLYCERIDE	HYDROGENATED LARD GLYCERIDE	8040-05-9	The Cosmetic Ingredient Review restricts the lead, arsenic, mercury, and total PCB/pesticide contents of this ingredient to maximum concentrations of 0.1 ppm, 3 ppm, 1 ppm, and 40 ppm (with 10 ppm for any specific residue), respectively.	
HYDROGENATED LARD GLYCERIDE	HYDROGENATED LARD GLYCERIDES	8040-05-9	The Cosmetic Ingredient Review restricts the lead, arsenic, mercury, and total PCB/pesticide contents of this ingredient to maximum concentrations of 0.1 ppm, 3 ppm, 1 ppm, and 40 ppm (with 10 ppm for any specific residue), respectively.	

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HYDROGENATED LARD GLYCERIDES	HYDROGENATED LARD GLYCERIDES	91744-48-8	The Cosmetic Ingredient Review restricts the lead, arsenic, mercury, and total PCB/pesticide contents of this ingredient to maximum concentrations of 0.1 ppm, 3 ppm, 1 ppm, and 40 ppm (with 10 ppm for any specific residue), respectively.	
HYDROGENATED LYSOLECITHIN	HYDROGENATED LYSOLECITHIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED LYSOPHOSPHATIDYLCHOLINE	HYDROGENATED LYSOPHOSPHATIDYLCHOLINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED MICROCRYSTALLINE WAX	Hydrogenated Microcrystalline Wax	64742605; 92045766	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 3% and PAH levels must be below 10 ppb. Mineral waxes must have an average molecular weight of at least 500 Daltons and a viscosity value greater than or equal to 11 centistokes at 100oC or greater than or equal to 8 centistokes at 120oC. Additionally, no more than 5% of hydrocarbons with a chain length less than C25 may be present.	
HYDROGENATED OLIVE OIL	HYDROGENATED OLIVE OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
HYDROGENATED OLIVE OIL UNSAPONIFIABLES	HYDROGENATED OLIVE OIL UNSAPONIFIABLES		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
HYDROGENATED PALM KERNEL OIL	HYDROGENATED PALM KERNEL OIL	84540-04-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 13%.	
HYDROGENATED PALM/ PALM KERNEL OIL PEG-6 ESTERS	Hydrogenated Palm/ Palm Kernel Oil Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HYDROGENATED PALM/ PALM KERNEL OIL PEG-6 ESTERS	HYDROGENATED PALM/ PALM KERNEL OIL PEG-6 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HYDROGENATED PALMTRIMONIUM CHLORIDE	HYDROGENATED PALMTRIMONIUM CHLORIDE		Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
HYDROGENATED PEANUT OIL	HYDROGENATED PEANUT OIL	68425-36-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
HYDROGENATED PHOSPHATIDYLCHOLINE	HYDROGENATED PHOSPHATIDYLCHOLINE	97281-48-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Hydrogenated Poly(C6-14 Olefin)	Hydrogenated Poly(C6-14 Olefin)		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED POLYBUTENE	HYDROGENATED POLYBUTENE	9003-28-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED POLYDECENE	HYDROGENATED POLYDECENE	68037-01-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED POLYDODECENE	HYDROGENATED POLYDODECENE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED POTATO STARCH	HYDROGENATED POTATO STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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HYDROGENATED RAPESEED OIL	HYDROGENATED RAPESEED OIL	84681-71-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
HYDROGENATED RICE BRAN OIL	HYDROGENATED RICE BRAN OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED SHEA BUTTER	HYDROGENATED SHEA BUTTER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
HYDROGENATED SOYBEAN OIL	HYDROGENATED SOYBEAN OIL	8016-70-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 42%	
HYDROGENATED STARCH HYDROLYSATE	HYDROGENATED STARCH HYDROLYSATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED STYRENE/ISOPRENE COPOLYMER	HYDROGENATED STYRENE/ISOPRENE COPOLYMER	68648-89-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED STYRENE/BUTADIENE COPOLYMER	HYDROGENATED STYRENE/BUTADIENE COPOLYMER	66070-58-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROGENATED SUNFLOWER SEED OIL	HYDROGENATED SUNFLOWER SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 35%	
HYDROGENATED SWEET ALMOND OIL	HYDROGENATED SWEET ALMOND OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
HYDROGENATED TALLOW BETAINE	HYDROGENATED TALLOW BETAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HYDROGENATED TALLOW GLYCERIDE	HYDROGENATED TALLOW GLYCERIDE	61789-09-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
HYDROGENATED TALLOW GLYCERIDE	HYDROGENATED TALLOW GLYCERIDES	61789-09-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
HYDROGENATED TALLOW GLYCERIDES	HYDROGENATED TALLOW GLYCERIDES	92128-50-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
HYDROGENATED TALLOWALKONIUM CHLORIDE	HYDROGENATED TALLOWALKONIUM CHLORIDE	61789728	The European Commission restricts this ingredient to a maximum concentration of 3% (as benzalkonium chloride) in rinseoff hair (head) products. In the final products, the concentrations of benzalkonium chloride, bromide and saccharinate with alkyl chain of C14 or less must not exceed 0.1% (as benzalkonium chloride). Required Warning: The European Commission requires the following warning text on the product label/package: 'Avoid contact with the eyes'	
HYDROGENATED TALLOWAMIDE DEA	HYDROGENATED TALLOWAMIDE DEA	68440324	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
HYDROGENATED TALLOWAMIDE DEA	HYDROGENATED TALLOWAMIDE DEA	68440-32-4	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
HYDROGENATED TALLOWAMINE	HYDROGENATED TALLOWAMINE	61788452	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

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HYDROGENATED TALLOWTRIMONIUM CHLORIDE	HYDROGENATED TALLOWTRIMONIUM CHLORIDE	61788-78-1	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
HYDROLYZED ACTIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED ACTIN	HYDROLYZED ACTIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED ALBUMEN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED ALGAE EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HYDROLYZED ALGIN	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HYDROLYZED AMARANTH PROTEIN	HYDROLYZED AMARANTH PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED AVOCADO PROTEIN	HYDROLYZED AVOCADO PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED BARLEY PROTEIN	HYDROLYZED BARLEY PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED BETAGLUCAN	HYDROLYZED BETAGLUCAN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED BRAZIL NUT PROTEIN	HYDROLYZED BRAZIL NUT PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED CAESALPINIA SPINOSA GUM	HYDROLYZED CAESALPINIA SPINOSA GUM		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	
HYDROLYZED CAESALPINIA SPINOSA GUM	HYDROLYZED CAESALPINIA SPINOSA GUM		(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	
HYDROLYZED CASEIN	HYDROLYZED CASEIN	65072-00-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED CERATONIA SILIQUA GUM EXTRACT	HYDROLYZED CERATONIA SILIQUA GUM EXTRACT	84961-45-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED CITRUS AURANTIUM DULCIS (ORANGE) FRUIT EXTRACT	Hydrolyzed Citrus Aurantium Dulcis Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROLYZED CITRUS AURANTIUM DULCIS (ORANGE) FRUIT EXTRACT	HYDROLYZED CITRUS AURANTIUM DULCIS (ORANGE) FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HYDROLYZED COLLAGEN	HYDROLYZED COLLAGEN	92113-31-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
HYDROLYZED CONCHIOLIN PROTEIN	HYDROLYZED HUMAN PLACENTAL PROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED CORALLINA OFFICINALIS	HYDROLYZED CORALLINA OFFICINALIS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED CORN STARCH HYDROXYETHYL ETHER	HYDROLYZED CORN STARCH HYDROXYETHYL ETHER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED CORN STARCH OCTENYLSUCCINATE	HYDROLYZED CORN STARCH OCTENYLSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED COTTONSEED PROTEIN	HYDROLYZED COTTONSEED PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED ELASTIN	HYDROLYZED ELASTIN	91080-18-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED ELASTIN HYDROLYZED ELASTIN	HYDROLYZED HUMAN PLACENTAL PROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED EXTENSIN	HYDROLYZED HUMAN PLACENTAL PROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED EXTENSIN	HYDROLYZED EXTENSIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED FIBROIN	HYDROLYZED FIBROIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED FIBRONECTIN	HYDROLYZED HUMAN PLACENTAL PROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED FIBRONECTIN	HYDROLYZED FIBRONECTIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROLYZED FUCUS VESICULOSUS EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HYDROLYZED FUCUS VESICULOSUS EXTRACT	HYDROLYZED FUCUS VESICULOSUS EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED FUCUS VESICULOSUS PROTEIN	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
HYDROLYZED FUCUS VESICULOSUS PROTEIN	HYDROLYZED FUCUS VESICULOSUS PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED GADIDAE PROTEIN	HYDROLYZED HUMAN PLACENTAL PROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED GELATIN	HYDROLYZED GELATIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED GINSENG SAPONINS	HYDROLYZED GINSENG SAPONINS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED GLYCINE SOJA (SOY) PROTEIN	HYDROLYZED GLYCINE SOJA (SOY) PROTEIN	68607-88-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED GRAPE FRUIT	HYDROLYZED GRAPE FRUIT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED GUAR	HYDROLYZED GUAR		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
HYDROLYZED GUAR	HYDROLYZED GUAR		(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%	
HYDROLYZED HAIR KERATIN	HYDROLYZED HAIR KERATIN	65997-21-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED HAZELNUT PROTEIN	HYDROLYZED HAZELNUT PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED HEMOGLOBIN	HYDROLYZED HUMAN PLACENTAL PROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED HEMP SEED PROTEIN	HYDROLYZED HEMP SEED PROTEIN		Health Canada restricts the THC (delta9tetrahydrocannabinol) content of this ingredient to a maximum concentration of 10 microgram/g.	
HYDROLYZED HEMP SEED PROTEIN	HYDROLYZED HEMP SEED PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROLYZED HUMAN PLACENTAL PROTEIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED JOJOBA ESTERS	HYDROLYZED JOJOBA ESTERS		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
HYDROLYZED JOJOBA PROTEIN	HYDROLYZED JOJOBA PROTEIN	100684-35-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED KERATIN	Keratin	69430-36-0	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED KERATIN	HYDROLYZED KERATIN	69430-36-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED LACTALBUMIN	HYDROLYZED LACTALBUMIN	68458-87-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED LUPINE PROTEIN	HYDROLYZED LUPINE PROTEIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED MILK PROTEIN	HYDROLYZED MILK PROTEIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED OAT FLOUR	HYDROLYZED OAT FLOUR		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
HYDROLYZED OAT PROTEIN	HYDROLYZED OAT PROTEIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
HYDROLYZED OATS	HYDROLYZED OATS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
HYDROLYZED PEA PROTEIN	HYDROLYZED PEA PROTEIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED PLACENTAL PROTEIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED PLUKENETIA VOLUBILIS SEED EXTRACT	HYDROLYZED PLUKENETIA VOLUBILIS SEED EXTRACT		Seedderived substances from P. volubilis can contain aflatoxins, depending on cultivation and processing. This substance must not contain detectable levels of aflatoxins.	
HYDROLYZED POTATO PROTEIN	HYDROLYZED POTATO PROTEIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROLYZED PROTEIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED RETICULIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED RETICULIN	HYDROLYZED RETICULIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED RHIZOBIAN GUM	HYDROLYZED RHIZOBIAN GUM		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED RICE BRAN EXTRACT	HYDROLYZED RICE BRAN EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.0004%. Additionally, the ingredient cannot contain significant levels of pesticide residues or heavy metals.	
HYDROLYZED RICE BRAN PROTEIN	HYDROLYZED RICE BRAN PROTEIN	73049-73-7	The Cosmetic Ingredient Review restricts this ingredient in that it cannot contain significant levels of pesticide residues or heavy metals.	
HYDROLYZED RICE EXTRACT	HYDROLYZED RICE EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%. Additionally, the ingredient cannot contain significant levels of pesticide residues or heavy metals.	
HYDROLYZED RICE PROTEIN	HYDROLYZED RICE PROTEIN	94350-05-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, the ingredient cannot contain significant levels of pesticide residues or heavy metals.	
HYDROLYZED SERICIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED SERICIN	HYDROLYZED SERICIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED SERUM PROTEIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED SESAME PROTEIN	HYDROLYZED SESAME PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED SILK	HYDROLYZED SILK	96690-41-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROLYZED SOY PROTEIN/DIMETHICONE PEG-7 ACETATE	Hydrolyzed Soy Protein/dimethicone Peg7 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HYDROLYZED SOY STARCH	HYDROLYZED SOY STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED SOYMILK PROTEIN	HYDROLYZED SOYMILK PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED SPINAL PROTEIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
HYDROLYZED SWEET ALMOND PROTEIN	HYDROLYZED SWEET ALMOND PROTEIN	73049-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED VEGETABLE PROTEIN	HYDROLYZED VEGETABLE PROTEIN	100209-45-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED WHEAT GLUTEN	HYDROLYZED WHEAT GLUTEN		The CIR Expert Panel concluded that hydrolyzed wheat gluten and hydrolyzed wheat protein are safe for use in cosmetics when formulated to restrict peptides to a weight-average MW of 3500 Da or less.	x
HYDROLYZED WHEAT PROTEIN	Hydrolyzed wheat protein	94350068	Europe restricts this chemical: Maximum molecular weight average of the peptides in hydrolysates: 3.5 kDa	
HYDROLYZED WHEAT PROTEIN	Hydrolyzed wheat protein	222400284	Europe restricts this chemical: Maximum molecular weight average of the peptides in hydrolysates: 3.5 kDa	
HYDROLYZED WHEAT PROTEIN	Hydrolyzed wheat protein	70084876	Europe restricts this chemical: Maximum molecular weight average of the peptides in hydrolysates: 3.5 kDa	
HYDROLYZED WHEAT PROTEIN	Hydrolyzed wheat protein	100209505	Europe restricts this chemical: Maximum molecular weight average of the peptides in hydrolysates: 3.5 kDa	
HYDROLYZED WHEAT PROTEIN	HYDROLYZED WHEAT PROTEIN	70084-87-6	The CIR Expert Panel concluded that hydrolyzed wheat gluten and hydrolyzed wheat protein are safe for use in cosmetics when formulated to restrict peptides to a weight-average MW of 3500 Da or less.	x
HYDROLYZED WHEAT PROTEIN/ PVP CROSSPOLYMER	HYDROLYZED WHEAT PROTEIN/ PVP CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED WHEAT PROTEIN/DIMETHICONE PEG-7 ACETATE	Hydrolyzed Wheat Protein/dimethicone Peg7 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HYDROLYZED WHEAT PROTEIN/DIMETHICONE PEG-7 PHOSPHATE COPOLYMER	Hydrolyzed Wheat Protein/dimethicone Peg7 Phosphate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROLYZED WHEAT PROTEIN/PEG-20 ACETATE COPOLYMER	Hydrolyzed Wheat Protein/peg20 Acetate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HYDROLYZED WHEAT STARCH	HYDROLYZED WHEAT STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED WHEY PROTEIN	HYDROLYZED WHEY PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED YOGURT PROTEIN	HYDROLYZED YOGURT PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROLYZED ZEIN	HYDROLYZED ZEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROPHILIC SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
HYDROPHOBIC SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
HYDROQUINONE	Hydroquinone	123319	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1% for cosmetic formulations designed for discontinuous, brief use followed by rinsing from the skin and hair. Hydroquinone is safe for use in nail adhesives and in artificial nail coatings, as a polymeriza. It is unsafe in all other leaveon products.	
HYDROQUINONE	Hydroquinone	123319	Health Canada restricts this ingredient to a maximum concentration of 0.3% as an oxidizing coloring agent in hair dyes, 0.02% in twocomponent (acrylic) artificial nail systems (after mixing for use), and 0.1% in cyanoacrylate adhesive products. This ingredient is only allowed in hair dye products, nail products and cyanoacrylatebased adhesives. Required Warning: Health Canada requires the following on the product label/package of hair dye products: 'Contains hydroquinone'; 'Do not use to dye eyelashes or eyebrows'. For nail products, the following text are required: 'Avoid skin contact'; 'Read directions carefully before using'. Lastly, the following text are required on the label/package of cyanoacrylate adhesive products: 'Avoid skin contact'; 'Read directions carefully before using'	
HYDROXYANISOLE	HYDROXYANISOLE	150765	The European Commission restricts this ingredient to a maximum concentration of 0.02% after mixing for use in artificial nail systems. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only'; 'Avoid skin contact'; 'Read directions for use carefully'	
HYDROXYANISOLE	PHYDROXYANISOLE	150765	Health Canada restricts this ingredient to professional use artificial nail systems products at a maximum concentration of 0.02% (after mixing). Required Warning: Health Canada requires the following warning text on the product label/package: 'For professional use only'; 'Avoid skin contact'; 'Read use directions carefully'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROXYANISOLE	HYDROXYANISOLE	150-76-5	According to Health Canada, this substance is permitted only in nail products. Maximum concentration permitted 0.1%.	x
HYDROXYANTHRAQUINONEAMINO PROPYL METHYL MORPHOLINIUM METHOSULFATE	1NMethylmorpholiniumpropylamino4 hydroxyanthraquinone, methyl sulfate	38866205	(*) The European Commission restricts this ingredient to a maximum concentration of 0.5% when applied to hair in nonoxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: (*) The European Commission requires the following on the product label/package: 'Hair colorants can cause severe allergic reactions. Read and follow instructions. This product is not intended for use on persons under the age of 16. Temporary 'black henna' tattoos may increase your risk of allergy. Do not colour your hair if: you have a rash on your face or sensitive, irritated and damaged scalp, you have ever experienced any reaction after colouring your hair, you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
HYDROXYBENZOMORPHOLINE	HYDROXYBENZOMORPHOLINE	26021578	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
HYDROXYBENZOMORPHOLINE	HYDROXYBENZOMORPHOLINE	26021-57-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.03%.	
HYDROXYCAPRIC ACID	HYDROXYCAPRIC ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
HYDROXYCAPROYL PHYTOSPHINGOSINE	HYDROXYCAPROYL PHYTOSPHINGOSINE	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYCAPRYLIC ACID	HYDROXYCAPRYLICACID		Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROXYCAPRYLIC ACID	HYDROXYCAPRYLIC ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
HYDROXYCAPRYLOYL PHYTOSPHINGOSINE	HYDROXYCAPRYLOYL PHYTOSPHINGOSINE	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYCETETH-60	Hydroxyceteth60		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HYDROXYCETYL HYDROXYETHYLSTEARAMIDE	HYDROXYCETYL HYDROXYETHYLSTEARAMIDE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
HYDROXYCITRONELLAL	Hydroxycitronellal	107755	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
HYDROXYCITRONELLAL	Hydroxycitronellal	107755	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.2% in deodorants/antiperspirants, 0.8% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 3.6% in mouthwashes, breath sprays, and toothpastes, 0.4% in intimate wipes, and baby wipes, 1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
HYDROXYCITRONELLAL	Hydroxycitronellal	107755	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.38% Category 2) 0.11% Category 3) 2.3% Category 4) 2.1% Category 5A) 0.53% Category 5B) 0.53% Category 5C) 0.53% Category 5D) 0.53% Category 6) 1.2% Category 7A) 4.3% Category 7B) 4.3% Category 8) 0.22% Category 9) 4.1% Category 10A) 15% Category 10B) 15% Category 11A) 8.2% Category 11B) 8.2% Category 12) No Restriction	
HYDROXYETHYL ACRYLATE/ SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 4%	
HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER	HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER	HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROXYETHYL DIMETHICONE LAURATE	HYDROXYETHYL DIMETHICONE LAURATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
HYDROXYETHYL DIMETHICONE LAURATE	HYDROXYETHYL DIMETHICONE LAURATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
HYDROXYETHYL ISOSTEARYLOXY ISOPROPANOLAMINE	HYDROXYETHYL ISOSTEARYLOXY ISOPROPANOLAMINE	158314477	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
HYDROXYETHYL STEARAMIDE-MIPA	HYDROXYETHYL STEARAMIDE-MIPA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HYDROXYETHYL UREA	HYDROXYETHYL UREA	1320-51-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
HYDROXYETHYL-2-NITRO-P-TOLUIDINE	HYDROXYETHYL2NITROPTOLUIDINE	100418335	The European Commission restricts this ingredient to a maximum concentration of 1.0% applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 1.0% in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL	HYDROXYETHYL3,4METHYLENEDIOXYANILINE HCL	94158142	The European Commission restricts this ingredient to a maximum concentration of 1.5% applied to hair after mixing under oxidative conditions in oxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL	HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL	94158-14-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYETHYL-P-PHENYLENEDIAMINE SULFATE	HYDROXYETHYLPPHENYLENEDIAMINE SULFATE	93841259	The European Commission restricts this ingredient to a maximum concentration of 2.0% (calculated as sulphate) applied to hair after mixing under oxidative conditions in oxidative hair dye products.	
HYDROXYETHYLBUTYLAMINE LAURETH SULFATE	Hydroxyethylbutylamine Laureth Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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HYDROXYETHYLCELLULOSE	HYDROXYETHYLCELLULOSE	9004-62-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	HYDROXYISOHEXYL 3CYCLOHEXENE CARBOXALDEHYDE	31906044	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
HYDROXYLAURIC ACID	HYDROXYLAURIC ACID	2984-55-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
HYDROXYLAUROYL PHYTOSPHINGOSINE	HYDROXYLAUROYL PHYTOSPHINGOSINE	100403-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYMETHYLPENTYLCYCLOHEXENE CARBALDEHYDE	4(4Hydroxy4methylpentyl)3cyclohexenecarboxaldehyde (HMPCC)	51414256	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.02% in deodorants/antiperspirants, 0.2% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.2% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.2% in mouthwashes, breath sprays, and toothpastes, 0.02% in intimate wipes, and baby wipes, 0.2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.2% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
HYDROXYMETHYLPENTYLCYCLOHEXENE CARBALDEHYDE	3 and 4(4Hydroxy4methylpentyl)3cyclohexenecarboxaldehyde (HMPCC)	51414256	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020 % Category 2) 0.020 % Category 3) 0.10 % Category 4) 0.20 % Category 5A) 0.20 % Category 5B) 0.20 % Category 5C) 0.20 % Category 5D) 0.067 % Category 6) 0.20 % Category 7A) 0.020 % Category 7B) 0.020 % Category 8) 0.067 % Category 9) 0.20 % Category 10A) 0.20 % Category 10B) 0.20 % Category 11A) 0.067 % Category 11B) 0.067 % Category 12) 91 %	
HYDROXYPALMITOYL SPHINGANINE	HYDROXYPALMITOYL SPHINGANINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYPROPYL BIS(N-HYDROXYETHYL-P-PHENYLENEDIAMINE) HCL	Hydroxypropyl Bis(NHydroxyethylpPhenylenediamine) HCL	128729282	The European Commission restricts this ingredient to a maximum concentration of 0.4% (as tetrahydrochloride) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'; 'Read and follow instructions'	
HYDROXYPROPYL BIS(N-HYDROXYETHYL-P-PHENYLENEDIAMINE) HCL	HYDROXYPROPYL BIS(N-HYDROXYETHYL-P-PHENYLENEDIAMINE) HCL	128729-28-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYPROPYL CYCLODEXTRIN	HYDROXYPROPYL CYCLODEXTRIN	128446-35-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYPROPYL GUAR	HYDROXYPROPYL GUAR	39421-75-5	(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in leaveon products.	
HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	71329-50-5	(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.9%	
HYDROXYPROPYL METHYLCELLULOSE	Hydroxypropyl Methylcellulose	9004653	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	

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HYDROXYPROPYL OXIDIZED STARCH	HYDROXYPROPYL OXIDIZED STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYPROPYL PANTHENYL PEG-7 DIMETHICONE	Hydroxypropyl Panthenyl Peg7 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
HYDROXYPROPYL STARCH	HYDROXYPROPYL STARCH	9049-76-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYPROPYL XANTHAN GUM	HYDROXYPROPYL XANTHAN GUM		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYPROPYLCELLULOSE	HYDROXYPROPYLCELLULOSE	9004-64-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
HYDROXYPROPYLCOCOATE PEG-8 DIMETHICONE	HYDROXYPROPYLCOCOATE PEG-8 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
HYDROXYPROPYLCOCOATE PEG-8 DIMETHICONE	HYDROXYPROPYLCOCOATE PEG-8 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
HYDROXYPROPYLDIMETHICONE	HYDROXYPROPYLDIMETHICONE	102782-61-6	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
HYDROXYPROPYLDIMETHICONE	HYDROXYPROPYLDIMETHICONE	102782-61-6	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
HYDROXYPROPYLTRIMONIUM HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
HYDROXYPROPYLTRIMONIUM HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
HYDROXYPROPYLTRIMONIUM HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
HYDROXYPROPYLTRIMONIUM HYDROLYZED CORN STARCH	HYDROXYPROPYLTRIMONIUM HYDROLYZED CORN STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYPROPYLTRIMONIUM HYDROLYZED WHEAT PROTEIN/SILOXYSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
HYDROXYPROPYLTRIMONIUM HYDROLYZED WHEAT STARCH	HYDROXYPROPYLTRIMONIUM HYDROLYZED WHEAT STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYDROXYPROPYLTRIMONIUM MALTODEXTRIN CROSSPOLYMER	HYDROXYPROPYLTRIMONIUM MALTODEXTRIN CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYDROXYSTEARAMIDE MEA	HYDROXYSTEARAMIDE MEA	106-15-0	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
HYDROXYSTEARIC ACID	HYDROXYSTEARIC ACID	106-14-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
HYPERICUM PERFORATUM (ST. JOHN'S WORT) FLOWER EXTRACT	HYPERICUM PERFORATUM (ST. JOHN'S WORT) FLOWER EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYPERICUM PERFORATUM (ST. JOHN'S WORT) LEAF EXTRACT	HYPERICUM PERFORATUM (ST. JOHN'S WORT) LEAF EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYPNEA MUSCIFORMIS (HYPNEACEAE) EXTRACT	HYPNEA MUSCIFORMIS (HYPNEACEAE) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
HYSSOPUS OFFICINALIS (HYSSOP)	HYSSOPUS OFFICINALIS (HYSSOP)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
HYSSOPUS OFFICINALIS (HYSSOP)	HYSSOPUS OFFICINALIS (HYSSOP)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYSSOPUS OFFICINALIS (HYSSOP)	HYSSOPUS OFFICINALIS (HYSSOP)		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
HYSSOPUS OFFICINALIS (HYSSOP) OIL	HYSSOPUS OFFICINALIS (HYSSOP) OIL	8006835	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
HYSSOPUS OFFICINALIS (HYSSOP) OIL	HYSSOPUS OFFICINALIS LEAF OIL	8006835	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYSSOPUS OFFICINALIS (HYSSOP) OIL	HYSSOPUS OFFICINALIS (HYSSOP) OIL	8006835	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYSSOPUS OFFICINALIS (HYSSOP) OIL	HYSSOPUS OFFICINALIS LEAF OIL	8006835	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYSSOPUS OFFICINALIS (HYSSOP) OIL	HYSSOPUS OFFICINALIS (HYSSOP) OIL	8006835	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
HYSSOPUS OFFICINALIS (HYSSOP) OIL	HYSSOPUS OFFICINALIS LEAF OIL	8006835	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
HYSSOPUS OFFICINALIS EXTRACT	HYSSOPUS OFFICINALIS EXTRACT	84603667	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
HYSSOPUS OFFICINALIS EXTRACT	HYSSOPUS OFFICINALIS EXTRACT	84603667	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
HYSSOPUS OFFICINALIS EXTRACT	HYSSOPUS OFFICINALIS EXTRACT	84603667	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
HYSSOPUS OFFICINALIS LEAF OIL	HYSSOPUS OFFICINALIS LEAF OIL	8006835	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
HYSSOPUS OFFICINALIS LEAF OIL	HYSSOPUS OFFICINALIS LEAF OIL	8006835	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
HYSSOPUS OFFICINALIS LEAF OIL	HYSSOPUS OFFICINALIS LEAF OIL	8006835	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
ILLICIIUM VERUM (ANISE) OIL	ILLICIIUM VERUM (ANISE) OIL		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
ILLICIIUM VERUM (ANISE) SEED OIL	ILLICIIUM VERUM (ANISE) SEED OIL		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ILLITE	CLAYS AND MINERALS	12173-60-3	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
IMIDAZOLIDINYL UREA	Imidazolidinyl urea	39236469	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
IMIDAZOLIDINYL UREA	N,N"Methylenebis[N'[(3(hydroxymethyl)2,5dioximidazolidin-4yl]urea]	39236469	(*) The European Commission restricts this ingredient to a maximum concentration of 0.60%	
IMIDAZOLIDINYL UREA	IMIDAZOLIDINYL UREA	39236-46-9	Per COSING, the maximum concentration in RTU preparation 0.60%.	x
INOSITOL, HEXAKIS(DIHYDROGEN PHOSPHATE), CALCIUM MAGNESIUM SALT, MYO-	INOSITOL, HEXAKIS(DIHYDROGEN PHOSPHATE), CALCIUM MAGNESIUM SALT, MYO-	3615-82-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
INTERNAL EWG REVIEW CHEMICAL	benzyl alcohol	100516	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
INULIN		9005-80-5	The Cosmetic Ingredient Review panel states this substance should contain no more than the following: 1 mg/kg lead, 0.2% ash, and 15% (combined) of monosaccharides (as fructose and glucose) and disaccharides (as sucrose), calculated on the dried basis.	x
IODOPROPYNYL BUTYLCARBAMATE	IODOPROPYNYL BUTYLCARBAMATE	55406-53-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%. Additionally, it may not be used in aerosol products.	
IODOPROPYNYL BUTYLCARBAMATE	IODOPROPYNYLBUTYLCARBAMATE	55406-53-6	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.02% in rinseoff products (not applied to mucosa).	
IODOPROPYNYL BUTYLCARBAMATE	IODOPROPYNYLBUTYLCARBAMATE	55406-53-6	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.02% in products meant to be applied to the mucosa.	
IODOPROPYNYL BUTYLCARBAMATE	IODOPROPYNYLBUTYLCARBAMATE	55406-53-6	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.02% in leaveon products (not applied to mucosa).	
IODOPROPYNYL BUTYLCARBAMATE	IODOPROPYNYLBUTYLCARBAMATE	55406-53-6	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in aerosol products.	
IODOPROPYNYL BUTYLCARBAMATE	3Iodo2propynylbutylcarbamate	55406536	(*) The European Commission restricts this ingredient to a maximum concentration of 0.02% in rinseoff products, 0.015% in leaveon products, and 0.0075% in deodorants/antiperspirants	
IPDI/PEG-15 COCAMINE COPOLYMER	Ipdi/peg15 Cocamine Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
IPDI/PEG-15 COCAMINE COPOLYMER DIMER DILINOLEATE	Ipdi/peg15 Cocamine Copolymer Dimer Dilinoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
IPDI/PEG-15 COCAMINE/GLYCERETH-7/POLYGLYCERYL-3 COPOLYMER	Ipdi/peg15 Cocamine/glycereth7/polyglyceryl3 Copolymer	373387509	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
IPDI/PEG-15 SOY GLYCINATE COPOLYMER	Ipdi/peg15 Soy Glycinate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
IPDI/PEG-15 SOYAMINE COPOLYMER	Ipdi/peg15 Soyamine Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
IPDI/PEG-15 SOYAMINE OXIDE COPOLYMER	Ipdi/peg15 Soyamine Oxide Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
IPDI/PEG-15 SOYETHONIUM ETHOSULFATE COPOLYMER	Ipdi/peg15 Soyethonium Ethosulfate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
IRON ALLOY, BASE, FE,NI	Nickel Compounds	11133-76-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
IRON NICKEL ZINC OXIDE	Nickel Compounds	12645-50-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
Irone	Methyl ionone, mixed isomers	1335940	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 5.4% Category 2) 1.6% Category 3) 32% Category 4) 30% Category 5A) 7.6% Category 5B) 7.6% Category 5C) 7.6% Category 5D) 7.6% Category 6) 18% Category 7A) 61% Category 7B) 61% Category 8) 3.2% Category 9) 59% Category 10A) 100% Category 10B) 100% Category 11A) 100% Category 11B) 100% Category 12) No Restriction; A level of up to 2% of Pseudo methyl ionones as an impurity in Methyl ionones is accepted.	
IRVINGIA GABONENSIS (OBA) KERNEL BUTTER	IRVINGIA GABONENSIS KERNEL BUTTER	192230-28-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	
ISATIN	ISATIN	91565	The European Commission restricts this ingredient to a maximum concentration of 1.6% in nonoxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package: 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	
ISOAMYL ALLYLGLYCOLATE	ISOAMYL ALLYLGLYCOLATE	67634008	The European Commission restricts the level of free allyl alcohol in the ester to less than 0.1%.	
ISOAMYLBENZOATE	Benzoate	94-46-2	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
ISOBERGAMATE	ISOBERGAMATE	68683205	The European Commission restricts this ingredient to a maximum concentration of 0.10%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOBERGAMATE	Menthadiene7methyl formate	68683205	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 0.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ISOBERGAMATE	Menthadiene7methyl formate	68683205	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077% Category 2) 0.023% Category 3) 0.46% Category 4) 0.43% Category 5A) 0.11% Category 5B) 0.11% Category 5C) 0.11% Category 5D) 0.11% Category 6) 0.25% Category 7A) 0.88% Category 7B) 0.88% Category 8) 0.045% Category 9) 0.84% Category 10A) 3.0% Category 10B) 3.0% Category 11A) 1.7% Category 11B) 1.7% Category 12) No Restriction	
ISOBUTANE	Isobutane	75285	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
ISOBUTANE	Isobutane	75285	Health Canada bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene.	
ISOBUTYL BENZOATE	ISOBUTYL BENZOATE	120-50-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.01%.	
ISOBUTYL BENZOATE	Benzoate	120-50-3	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
ISOBUTYL METHACRYLATE/BIS-HYDROXYPROPYL DIMETHICONE ACRYLATE COPOLYMER	ISOBUTYL METHACRYLATE/BIS-HYDROXYPROPYL DIMETHICONE ACRYLATE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
ISOBUTYLENE/ISOPRENE COPOLYMER	ISOBUTYLENE/ISOPRENE COPOLYMER	9010-85-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ISOBUTYL PARABEN	ISOBUTYL PARABEN	4247-02-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
ISOCETEARETH-8 STEARATE	Isoceteareth8 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-10	ISOCETETH10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOCETETH-10 STEARATE	Isoceteth10 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-12	ISOCETETH12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-15	ISOCETETH15		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-20	ISOCETETH20	69364632	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-25	ISOCETETH25		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-3 ACETATE	Isoceteth3 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-30	ISOCETETH30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-5	ISOCETETH5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETETH-7	ISOCETETH7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOCETYL SALICYLATE	ISOCETYL SALICYLATE		The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
ISOCYANIC ACID, TRIESTER WITH 1,3,5-TRIS(6-HYDROXYHEXYL)BIURET	Prepolymer of Hexamethylene diisocyanate	4035896	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOCYCLOCITRAL	ISOCYCLOCITRAL	1335666	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.3% in deodorants/antiperspirants, 1.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 3.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 5.1% in mouthwashes, breath sprays, and toothpastes, 0.5% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ISOCYCLOCITRAL	ISOCYCLOCITRAL	1423467	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.3% in deodorants/antiperspirants, 1.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 3.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 5.1% in mouthwashes, breath sprays, and toothpastes, 0.5% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ISOCYCLOCITRAL	ISOCYCLOCITRAL	67634075	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.3% in deodorants/antiperspirants, 1.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 3.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 5.1% in mouthwashes, breath sprays, and toothpastes, 0.5% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ISOCYCLOCITRAL	ISOCYCLOCITRAL	1335666	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 3.2 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.76 % Category 5C) 0.76 % Category 5D) 0.76 % Category 6) 1.8 % Category 7A) 6.1 % Category 7B) 6.1 % Category 8) 0.32 % Category 9) 5.9 % Category 10A) 21 % Category 10B) 21 % Category 11A) 12 % Category 11B) 12 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOCYCLOCITRAL	ISOCYCLOCITRAL	1423467	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 3.2 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.76 % Category 5C) 0.76 % Category 5D) 0.76 % Category 6) 1.8 % Category 7A) 6.1 % Category 7B) 6.1 % Category 8) 0.32 % Category 9) 5.9 % Category 10A) 21 % Category 10B) 21 % Category 11A) 12 % Category 11B) 12 % Category 12) No Restriction	
ISOCYCLOCITRAL	ISOCYCLOCITRAL	67634075	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.54 % Category 2) 0.16 % Category 3) 3.2 % Category 4) 3.0 % Category 5A) 0.76 % Category 5B) 0.76 % Category 5C) 0.76 % Category 5D) 0.76 % Category 6) 1.8 % Category 7A) 6.1 % Category 7B) 6.1 % Category 8) 0.32 % Category 9) 5.9 % Category 10A) 21 % Category 10B) 21 % Category 11A) 12 % Category 11B) 12 % Category 12) No Restriction	
ISOCYCLOGERANIOL	ISOCYCLOGERANIOL	68527775	The European Commission restricts this ingredient to a maximum concentration of 0.5%.	
ISOCYCLOGERANIOL	ISOCYCLOGERANIOL	68527775	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.11% in lip products, 0.14% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.5% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.8% in mouthwashes, breath sprays, and toothpastes, 0.3% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ISOCYCLOGERANIOL	ISOCYCLOGERANIOL	68527775	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.29% Category 2) 0.087% Category 3) 1.8% Category 4) 1.6% Category 5A) 0.41% Category 5B) 0.41% Category 5C) 0.41% Category 5D) 0.41% Category 6) 0.96% Category 7A) 3.3% Category 7B) 3.3% Category 8) 0.17% Category 9) 3.2% Category 10A) 11% Category 10B) 11% Category 11A) 6.3% Category 11B) 6.3% Category 12) No Restriction	
ISODECETH-2 COCOATE	Isodeceth2 Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISODECETH-4	ISODECETH4		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISODECETH-5	ISODECETH5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISODECETH-6	ISODECETH6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISODECYL OLEATE	ISODECYL OLEATE	59231-34-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
ISODECYL SALICYLATE	ISODECYL SALICYLATE	85252-25-1	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
ISODODECANE	Isododecane	31807553	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 90%.	
ISOEICOSANE	ISOEICOSANE	52845-07-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 37%	
ISOEUGENOL	Isoeugenol	97541	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
ISOEUGENOL	Isoeugenol	97541	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.01% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.2% in mouthwashes, breath sprays, and toothpastes, 0.02% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ISOEUGENOL	Isoeugenol	97541	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.019% Category 2) 0.0057% Category 3) 0.12% Category 4) 0.11% Category 5A) 0.027% Category 5B) 0.027% Category 5C) 0.027% Category 5D) 0.0090% Category 6) 0.063% Category 7A) 0.22% Category 7B) 0.22% Category 8) 0.0090% Category 9) 0.21% Category 10A) 0.21% Category 10B) 0.75% Category 11A) 0.0090% Category 11B) 0.0090% Category 12) No Restriction	
ISOEUGENOL	Isoeugenol	5932683	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.019% Category 2) 0.0057% Category 3) 0.12% Category 4) 0.11% Category 5A) 0.027% Category 5B) 0.027% Category 5C) 0.027% Category 5D) 0.0090% Category 6) 0.063% Category 7A) 0.22% Category 7B) 0.22% Category 8) 0.0090% Category 9) 0.21% Category 10A) 0.21% Category 10B) 0.75% Category 11A) 0.0090% Category 11B) 0.0090% Category 12) No Restriction	
ISOLAURETH-10	ISOLAURETH10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOLAURETH-3	ISOLAURETH3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOLAURETH-4 PHOSPHATE	Isolaureth4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOLAURETH-6	ISOLAURETH6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOLEUCINE	ISOLEUCINE	73-32-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ISOMALT	ISOMALT	64519-82-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ISOMERIZED LINOLEIC ACID	ISOMERIZED LINOLEIC ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ISOMERIZED SAFFLOWER ACID	ISOMERIZED SAFFLOWER ACID	121250-47-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
ISOMERIZED SAFFLOWER GLYCERIDES	ISOMERIZED SAFFLOWER GLYCERIDES	303101-61-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ISOMETHYL-beta-IONONE	Methyl ionone, mixed isomers	79890	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in lip products, 2.59% in deodorants/antiperspirants, 10.56% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 31.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 16.67% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 50.72% in mouthwashes, breath sprays, and toothpastes, 5.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ISOMETHYL-beta-IONONE	Methyl ionone, mixed isomers	79890	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 5.4% Category 2) 1.6% Category 3) 32% Category 4) 30% Category 5A) 7.6% Category 5B) 7.6% Category 5C) 7.6% Category 5D) 7.6% Category 6) 18% Category 7A) 61% Category 7B) 61% Category 8) 3.2% Category 9) 59% Category 10A) 100% Category 10B) 100% Category 11A) 100% Category 11B) 100% Category 12) No Restriction; A level of up to 2% of Pseudo methyl ionones as an impurity in Methyl ionones is accepted.	
ISONICOTINIC ACID HYDRAZIDE	Isonicotinic Acid Hydrazide	54853	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOOCTYL THIOGLYCOLATE	ISOOCTYL THIOGLYCOLATE	25103097	The European Commission restricts this ingredient to a maximum concentration of 8% (calculated as thioglycolic acid) in hair waving products and 11% (calculated as thioglycolic acid) in hair straightening products. Required Warning: The European Commission requires the following conditions of use on the label/package of general and professional use hair waving or straightening products: 'May cause sensitization in the event of skin contact'; 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'; 'Wear suitable gloves'. Additionally, the following warning text are required: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Lastly, the following warning must also be labeled in addition to the above on professional use hair waving or straightening products: 'For professional use only'	
ISOOCTYL THIOGLYCOLATE	ISOOCTYL THIOGLYCOLATE	25103-09-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
ISOPENTYL ALCOHOL, NITRITE	ISOPENTYL ALCOHOL, NITRITE	110-46-3	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
ISOPENTYLDIOL	ISOPENTYLDIOL	2568-33-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ISOPRENE/PENTADIENE COPOLYMER	ISOPRENE/PENTADIENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ISOPROPANOLAMINE	isopropanolamine	78966	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ISOPROPANOLAMINE LANOLATE	ISOPROPANOLAMINE LANOLATE	85536465	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ISOPROPYL ACETATE	Isopropyl acetate	108-21-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
ISOPROPYL BENZOATE	Benzoate	939-48-0	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
ISOPROPYL CRESOLS	ISOPROPYL CRESOLS		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
ISOPROPYL LAURATE	ISOPROPYL LAURATE	10233-13-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ISOPROPYL METHOXYCINNAMATE	ISOPROPYLPMETHOXYCINNAMATE	5466-76-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of approximately 7.9% in rinseoff products (not applied to mucosa) when combined with diisopropyl cinnamate ester (mixture of ethyl 2,4diisopropyl cinnamate and methyl 2,4diisopropyl cinnamate).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOPROPYL METHOXYCINNAMATE	ISOPROPYLPMETHOXYCINNAMATE	5466-76-2	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa when combined with diisopropyl cinnamate ester (mixture of ethyl 2,4diisopropyl cinnamate and methyl 2,4diisopropyl cinnamate).	
ISOPROPYL METHOXYCINNAMATE	ISOPROPYLPMETHOXYCINNAMATE	5466-76-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of approximately 7.9% in leaveon products (not applied to mucosa) when combined with diisopropyl cinnamate ester (mixture of ethyl 2,4diisopropyl cinnamate and methyl 2,4diisopropyl cinnamate).	
ISOPROPYL MYRISTATE	isopropyl myristate	110-27-0	The Cosmetic Ingredient Review concludes this substance is safe as used when formulated to be nonirritating up to a concentration of 77.3%.	x
ISOPROPYL PPG-2 ISODECETH-7 CARBOXYLATE	Isopropyl Ppg2 Isodeceth7 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOPROPYL THIOGLYCOLATE	ISOPROPYL THIOGLYCOLATE	7383611	The European Commission restricts this ingredient to a maximum concentration of 8% (calculated as thioglycolic acid) in hair waving products and 11% (calculated as thioglycolic acid) in hair straightening products. Required Warning: The European Commission requires the following conditions of use on the label/package of general and professional use hair waving or straightening products: 'May cause sensitization in the event of skin contact'; 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'; 'Wear suitable gloves'. Additionally, the following warning text are required: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Lastly, the following warning must also be labeled in addition to the above on professional use hair waving or straightening products: 'For professional use only'	
ISOPROPYL THIOGLYCOLATE	ISOPROPYL THIOGLYCOLATE	7383-61-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
ISOPROPYL TITANIUM TRIISOSTEARATE	ISOPROPYL TITANIUM TRIISOSTEARATE	61417-49-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use, when used as a surface modifier.	x
ISOPROPYL-beta-METHYLCYCLOHEXANE-ETHANOL	4(Isopropyl).β.methylcyclohexanethanol	67634031	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.26 % Category 2) 0.39 % Category 3) 0.26 % Category 4) 6.4 % Category 5A) 0.52 % Category 5B) 0.26 % Category 5C) 0.26 % Category 5D) 0.086 % Category 6) 0.26 % Category 7A) 0.26 % Category 7B) 0.26 % Category 8) 0.086 % Category 9) 4.9 % Category 10A) 4.9 % Category 10B) 1.0 % Category 11A) 0.086 % Category 11B) 0.086 % Category 12) 20 %	
ISOPROPYL-METHYLBICYCLOHEXANONE	Thujone	546805	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.21 % Category 3) 0.032 % Category 4) 1.4 % Category 5A) 0.095 % Category 5B) 0.032 % Category 5C) 0.016 % Category 5D) 0.0053 % Category 6) 0.095 % Category 7A) 0.24 % Category 7B) 0.24 % Category 8) 0.0053 % Category 9) 0.13 % Category 10A) 0.13 % Category 10B) 0.22 % Category 11A) 0.0053 % Category 11B) 0.0053 % Category 12) 9.5 %	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOPROPYLAMINE	Isopropylamine	75310	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ISOPROPYLAMINE DODECYLBENZENESULFONATE	ISOPROPYLAMINE DODECYLBENZENESULFONATE	26264051	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ISOPROPYLIDENEDIPHENOL BISHYDROXYPROPYL PEG-180	Isopropylidenediphenol Bishydroxypropyl Peg180		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOPROPYLPARABEN	ISOPROPYLPARABEN	4191735	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
ISOSTEARAMIDE DEA	ISOSTEARAMIDE DEA	52794793	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
ISOSTEARAMIDE DEA	ISOSTEARAMIDE DEA	52794-79-3	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
ISOSTEARAMIDE MIPA	ISOSTEARAMIDE MIPA	152848-22-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ISOSTEARAMIDOPROPYL BETAINE	ISOSTEARAMIDOPROPYL BETAINE	63566370	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
ISOSTEARAMIDOPROPYL DIMETHYLAMINE	Isostearamidopropyl dimethylamine	67799046	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
ISOSTEARAMIDOPROPYL MORPHOLINE LACTATE	ISOSTEARAMIDOPROPYL MORPHOLINE LACTATE		On the basis of the data presented in this report, the CIR Expert Panel concludes that Isostearamidopropyl Morpholine Lactate is safe for use as a cosmetic ingredient in rinse-off formulations in the present concentrations and practices of use. The Panel also concludes that the available data are insufficient to support safety in leave-on formulations.	x
ISOSTEARETH-10	ISOSTEARETH20	52292178	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ISOSTEARETH-10	ISOSTEARETH2	52292178	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOSTEARETH-10	ISOSTEARETH10	52292178	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOSTEARETH-2	ISOSTEARETH2	52292178	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOSTEARETH-20	ISOSTEARETH20	52292178	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOSTEARIC ACID	ISOSTEARIC ACID	2724585	The Cosmetic Ingredient Review has determined this ingredient to be safe as used when formulated to be nonirritating and nonsensitizing up to a concentration of 26%.	
ISOSTEARYL ACETATE	ISOSTEARYL ACETATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
ISOSTEARYL BENZOATE	ISOSTEARYL BENZOATE	34364-24-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
ISOSTEARYL BENZOATE	Benzoate	34364-24-4	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
ISOSTEARYL CARBOXYDECYL PEG-8 DIMETHICONE	Isostearyl Carboxydecyl Peg8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ISOSTEARYL ETHYLHEXANOATE	ISOSTEARYL ETHYLHEXANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ISOSTEARYL GLYCERYL ETHER	ISOSTEARYL GLYCERYL ETHER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.02%.	
ISOSTEARYL NEOPENTANOATE	ISOSTEARYL NEOPENTANOATE	58958-60-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
ISOSTEARYL SEBACATE	ISOSTEARYL SEBACATE	478273-24-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
ISOSTEARYL TRIMETHYLOLPROPANE SILOXY SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ISOTHIAZOLINONE CHLORIDE	ISOTHIAZOLINONE CHLORIDE	55965-84-9	Per COSING, the maximum concentration in RTU preparation is 0.0015% (of a mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one)	x

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ISOTRIDECYL SALICYLATE	ISOTRIDECYL SALICYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
Jasmine	Jasmine absolute (sambac)	91770148	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.25% in lip products, 0.32% in deodorants/antiperspirants, 1.33% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 4% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 2.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 6.4% in mouthwashes, breath sprays, and toothpastes, 0.7% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
JASMINE ABSOLUTE	Jasmine absolute (grandiflorum)	84776647	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.22% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.1% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
JASMINE ABSOLUTE	Jasmine absolute (grandiflorum)	84776647	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11% Category 2) 0.032% Category 3) 0.65% Category 4) 0.60% Category 5A) 0.15% Category 5B) 0.15% Category 5C) 0.15% Category 5D) 0.15% Category 6) 0.35% Category 7A) 1.2% Category 7B) 1.2% Category 8) 0.063% Category 9) 1.2% Category 10A) 4.2% Category 10B) 4.2% Category 11A) 2.3% Category 11B) 2.3% Category 12) No Restriction	
JASMINUM OFFICINALE (JASMINE) EXTRACT	Jasmine absolute (grandiflorum)	90045946	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.22% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.1% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
JASMINUM OFFICINALE (JASMINE) EXTRACT	Jasmine absolute (grandiflorum)	90045946	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11% Category 2) 0.032% Category 3) 0.65% Category 4) 0.60% Category 5A) 0.15% Category 5B) 0.15% Category 5C) 0.15% Category 5D) 0.15% Category 6) 0.35% Category 7A) 1.2% Category 7B) 1.2% Category 8) 0.063% Category 9) 1.2% Category 10A) 4.2% Category 10B) 4.2% Category 11A) 2.3% Category 11B) 2.3% Category 12) No Restriction	
JASMINUM OFFICINALE (JASMINE) OIL	Jasmine absolute (grandiflorum)	8022966	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.22% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.7% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.4% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.1% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
JASMINUM OFFICINALE (JASMINE) OIL	Jasmine absolute (grandiflorum)	8022966	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11% Category 2) 0.032% Category 3) 0.65% Category 4) 0.60% Category 5A) 0.15% Category 5B) 0.15% Category 5C) 0.15% Category 5D) 0.15% Category 6) 0.35% Category 7A) 1.2% Category 7B) 1.2% Category 8) 0.063% Category 9) 1.2% Category 10A) 4.2% Category 10B) 4.2% Category 11A) 2.3% Category 11B) 2.3% Category 12) No Restriction	
JASMINUM SAMBAC (JASMINE) EXTRACT	Jasmine absolute (sambac)	91770148	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.68% Category 2) 0.20% Category 3) 4.1% Category 4) 3.8% Category 5A) 0.96% Category 5B) 0.96% Category 5C) 0.96% Category 5D) 0.96% Category 6) 2.2% Category 7A) 7.7% Category 7B) 7.7% Category 8) 0.40% Category 9) 7.4% Category 10A) 26% Category 10B) 26% Category 11A) 15% Category 11B) 15% Category 12) No Restriction	
JASMINUM SAMBAC (JASMINE) EXTRACT	Jasmine absolute (sambac)	1034798236	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.68% Category 2) 0.20% Category 3) 4.1% Category 4) 3.8% Category 5A) 0.96% Category 5B) 0.96% Category 5C) 0.96% Category 5D) 0.96% Category 6) 2.2% Category 7A) 7.7% Category 7B) 7.7% Category 8) 0.40% Category 9) 7.4% Category 10A) 26% Category 10B) 26% Category 11A) 15% Category 11B) 15% Category 12) No Restriction	
JOJOBA ESTERS	JOJOBA ESTERS		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 44%	
JUGLANS REGIA (PERSIAN WALNUT)	JUGLANS REGIA (WALNUT) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
JUGLANS REGIA (PERSIAN WALNUT) SEED OIL	JUGLANS REGIA (WALNUT) SEED OIL	8024-09-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
JUNIPERUS OXYCEDRUS WOOD OIL RECTIFIED	Cade oil Juniperus oxycedrus L. (purified)	90046029	The International Fragrance Association restricts the total benzopyrene and 1,2benzanthracene content of the purified form of this ingredient to a maximum of 1ppb in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
KAOLIN	CLAYS AND MINERALS	1332-58-7	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
Kaolin Clay	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
KAOLIN DIOLEATE	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
KAOLIN, CALCINED	CLAYS AND MINERALS	92704-41-1	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
KAOLINITE	CLAYS AND MINERALS	1318-74-7	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
KEFIRAN	KEFIRAN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
KELP SULFATED OLIGOSACCHARIDES	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
KERATIN	Keratin	68238-35-7	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
KERATIN	KERATIN	68238-35-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
KERATIN AMINO ACIDS	KERATIN AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
KEYS EMULSIFYING WAX	CETEARYL ALCOHOL		The Cosmetic Ingredient Review has determined that cetearyl alcohol (a component of emulsifying wax) is safe as used up to a concentration of 25%.	
KIDACHI ALOE EKISU	ALOE ARBORESCENS LEAF EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
KIWI FRUIT HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
KIWI FRUIT HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
KIWI FRUIT HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
KOJIC ACID	Kojic acid	501-30-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
KURO401	4Amino5hydroxy3(4nitrophenylazo)6 (phenylazo)2,7 naphthalenedisulfonic acid, disodium salt	1064488	(*) The European Commission restricts this ingredient to a maximum concentration of 0.5% in nonoxidative hair dye products.	
I-allo-OCIMENOL	LALLOOCIMENOL	126909	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
I-allo-OCIMENOL	Linalool; dLinalool; lLinalool	126909	The International Fragrance Association restricts the total peroxide content (in the final product) to a maximum concentration of 20 millimoles peroxides per liter.	
I-alpha-PINENE	LALPHAPINENE	7785264	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L	
L-ASCORBIC ACID, 2-(3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-TRIMETHYLTRIDECYL)-2H-1-	TOCOPHERYL ACETATE	132746-07-7	This ingredient should not contain detectable levels of hydroquinone.	
I-beta-PINENE	LBETAPINENE	18172673	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L	
L-CARNITINE HYDROCHLORIDE	L-CARNITINE HYDROCHLORIDE	6645-46-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
I-CARVONE	CARVONE	6485401	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.08% in lip products, 0.1% in deodorants/antiperspirants, 0.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.6% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.9% in mouthwashes, breath sprays, and toothpastes, 0.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
I-CARVONE	CARVONE	6485401	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.20% Category 2) 0.060% Category 3) 0.020% Category 4) 0.59% Category 5A) 0.20% Category 5B) 0.039% Category 5C) 0.059% Category 5D) 0.013% Category 6) 0.66% Category 7A) 0.039% Category 7B) 0.039% Category 8) 0.013% Category 9) 0.18% Category 10A) 0.18% Category 10B) 0.43% Category 11A) 0.013% Category 11B) 0.013% Category 12) 17%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
I-DIHYDROGERANIOL	Citronellol	7540514	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
I-DIHYDROGERANIOL	Citronellol	7540514	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
I-Limonene	LLIMONENE	5989548	The European Commission restricts this ingredient's peroxide content to less than 20 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
LACTALBUMIN	αlactalbumin	9051290	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LACTAMIDE MEA	LACTAMIDE MEA	5422-34-4	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
LACTIC ACID	Lactic acid	50215	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
LACTIC ACID	LACTICACID	50215	Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	
LACTIC ACID, ISOPROPYL ESTER	ISOPROPYL LACTATE	617-51-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LACTITOL	LACTITOL	585-86-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LACTOBACILLUS-MILK/MANGANESE/ZINC FERMENT LYSATE	LACTOBACILLUSMILK/MANGANES E/ZINC FERMENT LYSATE		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
LACTOBACILLUS/ALGAE EXTRACT FERMENT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LACTOBACILLUS/ALOE BARBADENSIS FERMENT FILTRATE	ALOE BARBADENSIS LEAF		The Cosmetic Ingredient Review restricts the anthraquinone (or aloin) content of this ingredient to less than 50 ppm, 40 ppm PCB/pesticides, 10 ppm arsenic, 10 ppm heavy metals, and 10 ppm lead.	
LACTOBACILLUS/KELP FERMENT FILTRATE	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LACTOGLOBULIN	LACTOGLOBULIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LACTOSE	LACTOSE	63-42-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LACTULOSE	LACTULOSE	4618-18-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAMINARIA DIGITATA	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LAMINARIA DIGITATA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LAMINARIA DIGITATA EXTRACT	LAMINARIA DIGITATA EXTRACT	90046-12-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAMINARIA DIGITATA POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LAMINARIA DIGITATA POWDER	LAMINARIA DIGITATA POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAMINARIA HYPERBOREA	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAMINARIA HYPERBOREA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LAMINARIA HYPERBOREA EXTRACT	LAMINARIA HYPERBOREA EXTRACT	90046-11-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAMINARIA HYPERBOREA EXTRACT	LAMINARIA HYPERBOREA EXTRACT	90046-11-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAMINARIA SACCHARINA	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LAMINARIA SACCHARINA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LAMINARIA SACCHARINA EXTRACT	LAMINARIA SACCHARINA EXTRACT	92128-82-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LANETH-15	LANETH15	61791-20-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LANETH-16	LANETH16	61791-20-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
LANETH-5	LANETH5	61791-20-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
LANOLIN	LANOLIN	8006-54-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 37%.	
LANOLIN ACID	LANOLIN ACID	68424-43-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
LANOLIN ALCOHOL	LANOLIN ALCOHOL	8027336	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
LANOLIN CERA	LANOLIN WAX		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
LANOLIN WAX	LANOLIN WAX	68201-49-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
LANOLINAMIDE DEA	LANOLINAMIDE DEA	85408884	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
LANOLINAMIDE DEA	LANOLINAMIDE DEA		The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	

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LAPYRIUM CHLORIDE	LAPYRIUM CHLORIDE	6272-74-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.03% in body wash products.	
LARD	LARD	61789999	The Cosmetic Ingredient Review restricts the lead, arsenic, mercury, and total PCB/pesticide contents of this ingredient to maximum concentrations of 0.1 ppm, 3 ppm, 1 ppm, and 40 ppm (with 10 ppm for any specific residue), respectively.	
LARD GLYCERIDE	LARD GLYCERIDE	61789-10-4	The Cosmetic Ingredient Review restricts the lead, arsenic, mercury, and total PCB/pesticide contents of this ingredient to maximum concentrations of 0.1 ppm, 3 ppm, 1 ppm, and 40 ppm (with 10 ppm for any specific residue), respectively.	
LAURALKONIUM CHLORIDE	Quaternary Ammonium Compounds, NOS	139071	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
LAURALKONIUM CHLORIDE	Dodecyldimethylbenzylammonium Chloride	139071	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
LAURALKONIUM CHLORIDE	Lauryl Dimethyl Benzyl Ammonium Chloride	139071	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
LAURALKONIUM CHLORIDE	Dodecyldimethylbenzylammonium Chloride	139071	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LAURAMIDE DEA	LAURAMIDE DEA	120401	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
LAURAMIDE DEA	LAURAMIDE DEA	120-40-1	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
LAURAMIDE MEA	LAURAMIDE MEA	142-78-9	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
LAURAMIDE MIPA	LAURAMIDE MIPA	142-54-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
LAURAMIDE/MYRISTAMIDE DEA	LAURAMIDE/MYRISTAMIDE DEA	97926108	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
LAURAMIDE/MYRISTAMIDE DEA	AMIDES, C12I4, N,NBIS(HYDROXYETHYL)	97926108	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
LAURAMIDE/MYRISTAMIDE DEA	LAURAMIDE/MYRISTAMIDE DEA		The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURAMIDOPROPYL BETAINE	LAURAMIDOPROPYL BETAINE	4292108	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
LAURAMIDOPROPYL DIMETHYLAMINE	Lauramidopropyl dimethylamine	3179804	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
LAURAMIDOPROPYL HYDROXSULTAINE	LAURAMIDOPROPYL HYDROXSULTAINE		The CIR panel expressed concern about DMAPA impurities in this ingredient. The concentration of DMAPA in this ingredient must not exceed 0.01%. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	x
LAURAMIDOPROPYL HYDROXSULTAINE	LAURAMIDOPROPYL HYDROXSULTAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURAMINE	LAURAMINE	124221	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
LAURAMINE OXIDE	LAURAMINE OXIDE	1643-20-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3.7% in leaveon products.	
LAURDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT PROTEIN/SILOXYSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
LAURDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT STARCH	LAURDIMONIUM HYDROXYPROPYL HYDROLYZED WHEAT STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURETH SULFOSUCCINATE	Laureth Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-1	LAURETH1	4536305	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-1 PHOSPHATE	Laureth1 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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LAURETH-10	LAURETH10	6540994	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-10 CARBOXYLIC ACID	Laureth17 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-10 CARBOXYLIC ACID	Laureth14 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-10 CARBOXYLIC ACID	Laureth13 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-10 CARBOXYLIC ACID	Laureth11 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-10 CARBOXYLIC ACID	Laureth10 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-11	LAURETH11	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-11 CARBOXYLIC ACID	Laureth11 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-12	LAURETH12	3056006	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-12 CARBOXYLIC ACID	Laureth12 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURETH-12 SUCCINATE	Laureth12 Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-13	LAURETH13	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-13 CARBOXYLIC ACID	Laureth13 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-13 PG-HYDROXYETHYLCELLULOSE	Laureth13 PgHydroxyethylcellulose	312601971	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-14	LAURETH14	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-14 CARBOXYLIC ACID	Laureth14 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-15	LAURETH15	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-16	LAURETH16	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-17 CARBOXYLIC ACID	Laureth17 Carboxylic Acid	27306907	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-2	LAURETH2	3055934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURETH-2 ACETATE	Laureth2 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-2 BENZOATE	Laureth2 Benzoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-2 BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
LAURETH-2 ETHYLHEXANOATE	Laureth2 Ethylhexanoate	125804140	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-2 PHOSPHATE	Laureth2 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-20	LAURETH20	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-21	LAURETH21		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-25	LAURETH25	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-3	LAURETH3	3055945	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-3 CARBOXYLIC ACID	Laureth3 Carboxylic Acid	20858246	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-3 PHOSPHATE	Laureth3 Phosphate	25852453	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURETH-30	LAURETH30	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-35	Laureth35		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-38	LAURETH38	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-4	LAURETH4	5274680	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-4 CARBOXYLIC ACID	Laureth4 Carboxylic Acid	20858257	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-4 PHOSPHATE	Laureth8 Phosphate	39464669	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-4 PHOSPHATE	Laureth7 Phosphate	39464669	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-4 PHOSPHATE	Laureth4 Phosphate	39464669	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-40	LAURETH40	9002920	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-5	LAURETH5	3055956	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURETH-5 BUTYL ETHER	Laureth5 Butyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-5 CARBOXYLIC ACID	Laureth5 Carboxylic Acid	21127457	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-50	LAURETH50		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-6	LAURETH6	3055967	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-6 CARBOXYLIC ACID	Laureth6 Carboxylic Acid	20260644	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-6 CITRATE	Laureth6 Citrate	161756305	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-7	LAURETH7	3055978	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-7 CITRATE	Laureth7 Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-7 METHYL LACTATE	Laureth7 Methyl Lactate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-7 PHOSPHATE	Laureth7 Phosphate	39464669	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURETH-7 TARTRATE	Laureth7 Tartrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-8	LAURETH8	3055989	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-8 CARBOXYLIC ACID	Laureth8 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-8 PHOSPHATE	Laureth8 Phosphate	39464669	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURETH-9	LAURETH9	3055990	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURIC ACID	LAURIC ACID	143077	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
LAURIC/PALMITIC/OLEIC TRIGLYCERIDE	LAURIC/PALMITIC/OLEIC TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAUROYL COLLAGEN AMINO ACIDS	Lauroyl collagen amino acids	68920592	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
LAUROYL COLLAGEN AMINO ACIDS	LAUROYL HYDROLYZED COLLAGEN	68920592	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
LAUROYL HYDROLYZED COLLAGEN	LAUROYL HYDROLYZED COLLAGEN	68920592	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
LAUROYL LYSINE	Lauroyl lysine	52315-75-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 45%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAUROYL SARCOSINE	LAUROYL SARCOSINE	97-78-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
LAURTRIMONIUM BROMIDE	LAURTRIMONIUM BROMIDE	1119-94-4	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
LAURTRIMONIUM CHLORIDE	LAURTRIMONIUM CHLORIDE	112-00-5	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
LAURUS NOBILIS LEAF	LAURUS NOBILIS LEAF		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
LAURUS NOBILIS LEAF	LAURUS NOBILIS LEAF		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LAURUS NOBILIS LEAF EXTRACT	Laurus Nobilis Leaf Extract	84603-73-6	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
LAURUS NOBILIS LEAF EXTRACT	Laurus Nobilis Leaf Extract	84603-73-6	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LAURUS NOBILIS LEAF WATER	LAURUS NOBILIS LEAF WATER		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURUS NOBILIS LEAF WATER	LAURUS NOBILIS LEAF WATER		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LAURYL ACRYLATE CROSSPOLYMER	LAURYL ACRYLATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
LAURYL ACRYLATE CROSSPOLYMER	LAURYL ACRYLATE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
LAURYL ACRYLATE/VA COPOLYMER	LAURYL ACRYLATE/VA COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
LAURYL ACRYLATE/VA CROSSPOLYMER	LAURYL ACRYLATE/VA CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
LAURYL ACRYLATE/VA CROSSPOLYMER	LAURYL ACRYLATE/VA CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
LAURYL BETAINE	LAURYL BETAINE	683-10-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
LAURYL DIMETHICONE	LAURYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
LAURYL DIMETHICONE PEG-15 CROSSPOLYMER	LAURYL DIMETHICONE PEG15 CROSSPOLYMER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURYL DIMETHICONE PEG-15 CROSSPOLYMER	LAURYL DIMETHICONE PEG15 CROSSPOLYMER		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURYL DIMETHICONE PEG-15 CROSSPOLYMER	LAURYL DIMETHICONE PEG-15 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER	LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER	LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURYL DIMETHYLAMINE CYCLOCARBOXYPROPYLOLEATE	LAURYL DIMETHYLAMINE CYCLOCARBOXYPROPYLOLEATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
LAURYL HYDROXYSULTAINE	LAURYL HYDROXYSULTAINE	13197-76-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURYL METHACRYLATE/ GLYCOL DIMETHACRYLATE CROSSPOLYMER	Lauryl Methacrylate/Glycol Dimethacrylate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
LAURYL METHACRYLATE/ GLYCOL DIMETHACRYLATE CROSSPOLYMER	LAURYL METHACRYLATE/ GLYCOL DIMETHACRYLATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
LAURYL METHACRYLATE/SODIUM METHACRYLATE CROSSPOLYMER	Lauryl Methacrylate/sodium Methacrylate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 8%	
LAURYL METHACRYLATE/SODIUM METHACRYLATE CROSSPOLYMER	LAURYL METHACRYLATE/SODIUM METHACRYLATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
LAURYL PEG-10 METHYL ETHER DIMETHICONE	Lauryl Peg10 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURYL PEG-10 METHYL ETHER DIMETHICONE	LAURYL PEG-10 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURYL PEG-10 TRIS(TRIMETHYLSILOXY)SILYLETHYL DIMETHICONE	LAURYL PEG-10 TRIS(TRIMETHYLSILOXY)SILYLETHYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
LAURYL PEG-10 TRIS(TRIMETHYLSILOXY)SILYLETHYL DIMETHICONE	LAURYL PEG-10 TRIS(TRIMETHYLSILOXY)SILYLETHYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAURYL PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE	Lauryl Peg9 Polydimethylsiloxylethyl Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURYL PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE	LAURYL PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
LAURYL PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE	LAURYL PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURYL PEG/ PPG-18/ 18 METHICONE	Lauryl Peg/ Ppg18/ 18 Methicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LAURYL PEG/ PPG-18/ 18 METHICONE	LAURYL PEG/ PPG-18/ 18 METHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
LAURYL PEG/ PPG-18/ 18 METHICONE	LAURYL PEG/ PPG-18/ 18 METHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURYL PHOSPHATE	LAURYL PHOSPHATE	12751-23-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
LAURYL POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE	LAURYL POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
LAURYL POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE	LAURYL POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAURYL SULTAINE	LAURYL SULTAINE	14933-08-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LAWSONE	LAWSONE	83-72-7	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
LAWSONE	LAWSONE	83-72-7	Per the U.S. FDA., henna shall conform to the following specifications: It shall not contain more than 10 percent of plant material from Lawsonia alba Lam. (Lawsonia inermis L.) other than the leaf and petiole, and shall be free from admixture with material from any other species of plant. Moisture, not more than 10 percent. Total ash, not more than 15 percent. Acid-insoluble ash, not more than 5 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million.	x
LAWSONIA INERMIS (HENNA)	LAWSONIA INERMIS (HENNA)	84988-66-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LAWSONIA INERMIS (HENNA)	LAWSONIA INERMIS (HENNA)	84988-66-9	Per the U.S. FDA., henna shall conform to the following specifications: It shall not contain more than 10 percent of plant material from Lawsonia alba Lam. (Lawsonia inermis L.) other than the leaf and petiole, and shall be free from admixture with material from any other species of plant. Moisture, not more than 10 percent. Total ash, not more than 15 percent. Acid-insoluble ash, not more than 5 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million.	x
LAWSONIA INERMIS (HENNA)	LAWSONIA INERMIS (HENNA)	84988-66-9	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
LAWSONIA INERMIS (HENNA) EXTRACT	LAWSONIA INERMIS (HENNA) EXTRACT	84929-30-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
LAWSONIA INERMIS (HENNA) FLOWER/FRUIT/LEAF EXTRACT	LAWSONIA INERMIS (HENNA) FLOWER/FRUIT/LEAF EXTRACT		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
LAWSONIA INERMIS (HENNA) POWDER	LAWSONIA INERMIS (HENNA) POWDER		This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
LEAD CHROMATE	Chromium Compounds	7758-97-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LEAD CHROMATE(VI) OXIDE	Chromium Compounds	18454-12-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LEAD HEXAFLUROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
LEAD SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
LEAD SULFOCHROMATE YELLOW	Chromium Compounds	1344-37-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LEAD TETROXIDE	CLAYS AND MINERALS	1314-41-6	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
LEAD-MOLYBDENUM CHROMATE	Chromium Compounds	12709-98-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LEAD(1+), TRIPHENYL-, HEXAFLUROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
LECITHIN	LECITHIN	8002-43-5	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
LECITHINAMIDE DEA	LECITHINAMIDE DEA	91053519	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LECITHINAMIDE DEA	LECITHINAMIDE DEA		The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nitroso compounds cannot form.	
LESSONIA NIGRESCENS (GREY WEED)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
LEUCINE	LEUCINE	328-39-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Leuconostoc Ferment Filtrate	Leuconostoc Ferment Filtrate		This substance contains salicylic acid at 1822%. The Japanese Ministry of Health, Labour and Welfare restricts salicylic acid to a maximum concentration of 0.2%.	
LEUCONOSTOC/RADISH ROOT FERMENT FILTRATE	LEUCONOSTOC/RADISH ROOT FERMENT FILTRATE		Use of this ingredient requires substantiation that (1) it contains < 0.01ppm of didecyltrimethylammonium chloride and (2) meets current VERIFIED restrictions on salicylic acid, a component of this ingredient (maximum concentration of salicylic acid in final products = 0.2% according to Japanese Ministry of Health, Labour and Welfare; current as of October 2020).	
LEVAN	LEVAN	9013-95-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LEVULINIC ACID	LEVULINIC ACID	123-76-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LILIAL	LILIAL	80546	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
LILIAL	ptertButylamethylhydrocinnamic aldehyde (BMHCA)	80546	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.12% in lip products, 0.15% in deodorants/antiperspirants, 0.62% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.86% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.98% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.97% in mouthwashes, breath sprays, and toothpastes, 0.31% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
LILIAL	ptertButylamethylhydrocinnamic aldehyde (pBMHCA)	80546	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0% (Prohibited) Category 2) 0.090% Category 3) 0.040% Category 4) 1.4% Category 5A) 0.060% Category 5B) 0.050% Category 5C) 0.050% Category 5D) 0.017% Category 6) 0.0% (Prohibited) Category 7A) 0.040% Category 7B) 0.040% Category 8) 0.017% Category 9) 0.10% Category 10A) 0.10% Category 10B) 0.63% Category 11A) 0.017% Category 11B) 0.017% Category 12) 16%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Lime oil terpeneless	Citrus oils and other furocoumarins containing essential oils (Bergapten)	68916-84-7	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
LIMONENE	Limonene	138863	The European Commission restricts this ingredient's peroxide content to less than 20 mmols/L. Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
LIMONENE	Limonene	138863	The European Commission restricts this ingredient's peroxide content to less than 20 mmols/L (this limit applies to the substance and not the finished cosmetic product).	
LIMONENE	Limonene	138863	The International Fragrance Association restricts the total peroxide content (in the final product) to a maximum concentration of 20 millimoles peroxides per liter.	
LINALOOL	Linalool	78706	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
LINALOOL	Linalool; dLinalool; lLinalool	78706	The International Fragrance Association restricts the total peroxide content (in the final product) to a maximum concentration of 20 millimoles peroxides per liter.	
LINALYL BENZOATE	Benzoate	126-64-7	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum 1% in the finished product.	x
linear alcohol ethoxylates	Linear Alcohol Ethoxylates		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LINOLEAMIDE DEA	LINOLEAMIDE DEA	27883121	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
LINOLEAMIDE DEA	LINOLEAMIDE DEA	27883-12-1	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
LINOLEAMIDE MEA	LINOLEAMIDE MEA	10015-67-5	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
LINOLEAMIDE MIPA	LINOLEAMIDE MIPA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
LINOLEAMIDOPROPYL DIMETHYLAMINE	Linoleamidopropyl dimethylamine	81613561	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
LINOLEAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE DIMETHICONE	LINOLEAMIDOPROPYL PG-DIMONIUM CHLORIDE PHOSPHATE DIMETHICONE	179005-04-0	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LINOLEIC ACID	LINOLEIC ACID	60-33-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
LINOLENIC ACID	LINOLENIC ACID	463-40-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
LINSEED MEAL	Linseed Oilcake		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
LINSEED OIL PEG-8 ESTERS	Linseed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LINSEED OIL PEG-8 ESTERS	LINSEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
LINUM USITATISSIMUM (FLAX) SEED EXTRACT	LINUM USITATISSIMUM (FLAX) SEED EXTRACT		Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
LINUM USITATISSIMUM (LINSEED) SEED OIL	LINUM USITATISSIMUM (LINSEED) OIL	8001-26-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 10%	
LINUM USITATISSIMUM (LINSEED) SEED OIL	LINUM USITATISSIMUM (LINSEED) SEED OIL	8001-26-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LIPASE	LIPASE	9001621	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
LIPPIA CITRIODORA FLOWER EXTRACT	Verbena absolute (Lippia citriodora Kunth.)	85116638	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.05% in lip products, 0.06% in deodorants/antiperspirants, 0.2% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.2% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.2% in mouthwashes, breath sprays, and toothpastes, 0.12% in intimate wipes, and baby wipes, 0.2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.2% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
LIPPIA CITRIODORA FLOWER EXTRACT	LIPPIA CITRIODORA FLOWER EXTRACT	85116638	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LIPPIA CITRIODORA FLOWER EXTRACT	LIPPIA CITRIODORA FLOWER EXTRACT	85116638	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LIPPIA CITRIODORA FLOWER EXTRACT	Lippia citriodora absolute	85116638	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.12% Category 2) 0.037% Category 3) 0.74% Category 4) 0.69% Category 5A) 0.17% Category 5B) 0.17% Category 5C) 0.17% Category 5D) 0.17% Category 6) 0.40% Category 7A) 1.4% Category 7B) 1.4% Category 8) 0.072% Category 9) 1.3% Category 10A) 4.8% Category 10B) 4.8% Category 11A) 2.7% Category 11B) 2.7% Category 12) No Restriction	
LIPPIA CITRIODORA FLOWER WATER	LIPPIA CITRIODORA FLOWER WATER		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
LIPPIA CITRIODORA FLOWER WATER	LIPPIA CITRIODORA FLOWER WATER		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LIPPIA CITRIODORA LEAF EXTRACT	LIPPIA CITRIODORA LEAF EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
LIPPIA CITRIODORA LEAF EXTRACT	LIPPIA CITRIODORA LEAF EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LIPPIA CITRIODORA LEAF/FLOWER OIL	LIPPIA CITRIODORA LEAF/FLOWER OIL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LIPPIA CITRIODORA LEAF/FLOWER OIL	LIPPIA CITRIODORA LEAF/FLOWER OIL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LIPPIA CITRIODORA WATER	LIPPIA CITRIODORA WATER		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
LIPPIA CITRIODORA WATER	LIPPIA CITRIODORA WATER		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
LIQUIDAMBAR ORIENTALIS EXTRACT	LIQUIDAMBAR ORIENTALIS EXTRACT	94891277	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
LIQUIDAMBAR ORIENTALIS EXTRACT	Styrax (distillates)	94891277	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.23% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.6% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.36% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.6% in mouthwashes, breath sprays, and toothpastes, 0.11% in intimate wipes, and baby wipes, 0.6% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.6% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
LIQUIDAMBAR ORIENTALIS EXTRACT	Styrax	94891277	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.12% Category 2) 0.034% Category 3) 0.69% Category 4) 0.64% Category 5A) 0.16% Category 5B) 0.16% Category 5C) 0.16% Category 5D) 0.16% Category 6) 0.38% Category 7A) 1.3% Category 7B) 1.3% Category 8) 0.068% Category 9) 1.3% Category 10A) 4.5% Category 10B) 4.5% Category 11A) 2.5% Category 11B) 2.5% Category 12) No Restriction ; Benzopyrene and 1,2Benzanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Birch tar oils or rectified Opoponax oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.	
LIQUIDAMBAR STYRACIFLUA OIL	LIQUIDAMBAR STYRACIFLUA OIL	8046193	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LIQUIDAMBAR STYRACIFLUA OIL	STORAX	8046193	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
LITHIUM ALUMINUM SILICATE	Aluminum Compounds	1302-66-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LITHIUM ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
LITHIUM ALUMINUMTRI-TERT-BUTOXYHYDRIDE	Aluminum Compounds	17476-04-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
LITHIUM HYDROXIDE	LITHIUM HYDROXIDE	1310652	The European Commission restricts this ingredient to a maximum concentration of 2% in general use hair straighteners and 4.5% in professional use hair straighteners (The concentration of sodium, potassium or lithium hydroxide is expressed as weight of sodium hydroxide. In case of mixtures, the sum should not exceed the limits given in the column 'Maximum concentration in ready for use preparation'). As a pH adjuster, it can have a maximum pH of 12.7 in depilatories and 11 in all other rinseoff products. Required Warning: The European Commission requires the following warning text on the product label/package of general use hair straighteners: 'Contains alkali'; 'Avoid contact with eyes'; 'Can cause blindness'; 'Keep out of reach of children'. For professional use hair straighteners, the following are required: 'Avoid contact with eyes'; 'Can cause blindness'. Lastly, as a pH adjuster for depilatories, the following are required on the label: 'Contains alkali'; 'Keep out of reach of children'; 'Avoid contact with eyes'	
LITHIUM MAGNESIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
LITHIUM MAGNESIUM SODIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
LITHIUM OXIDIZED POLYETHYLENE	Lithium Oxidized Polyethylene		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
LITHIUM STEARATE	LITHIUM STEARATE	4485-12-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
LITHIUM SULFIDE	lithium sulfide	12136582	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LITHIUM SULFIDE	LITHIUMSULFIDE	12136582	Health Canada restricts this ingredient to a maximum concentration of 2% (sulfur) in depilatory products.	
LITSEA CUBEBA (MAY CHANG) OIL	LITSEA CUBEBA (MAY CHANG) OIL	68855992	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association .	
LOCUST BEAN HYDROXYPROPYLTRIMONIUM CHLORIDE	LOCUST BEAN HYDROXYPROPYLTRIMONIUM CHLORIDE		(*) The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% in rinseoff products.	
LONGIFOLENE	Longifolene	475207	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
LONGIFOLENE	Longifolene	16846096	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
LONGIFOLENE	Longifolene	19067299	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
LUBRICATING GREASES	Lubricating greases	74869219	The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
LUBRICATING OILS	Lubricating oils	74869220	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
LUFFA CYLINDRICA (LUFFA AEGYPTIACA) SEED OIL	LUFFA CYLINDRICA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.01%.	
LUPINE AMINO ACIDS	LUPINE AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LUPINUS ALBUS (WHITE LUPIN) SEED OIL	LUPINUS ALBUS (WHITE LUPIN) SEED OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LUPINUS ALBUS PROTEIN	LUPINUS ALBUS PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LYRAL	HYDROXYISOHEXYL 3CYCLOHEXENE CARBOXALDEHYDE	31906044	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
LYRAL	3 and 4(4Hydroxy4methylpentyl)3cyclohexenelcarboxaldehyde (HMPCC)	31906044	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020 % Category 2) 0.020 % Category 3) 0.10 % Category 4) 0.20 % Category 5A) 0.20 % Category 5B) 0.20 % Category 5C) 0.20 % Category 5D) 0.067 % Category 6) 0.20 % Category 7A) 0.020 % Category 7B) 0.020 % Category 8) 0.067 % Category 9) 0.20 % Category 10A) 0.20 % Category 10B) 0.20 % Category 11A) 0.067 % Category 11B) 0.067 % Category 12) 91 %	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
LYSINE	LYSINE	56-87-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LYSINE HYDROCHLORIDE	LYSINE HYDROCHLORIDE	657-27-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LYSOLECITHIN	LYSOLECITHIN	85711-58-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LYSOPHOSPHATIDIC ACID	LYSOPHOSPHATIDIC ACID		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
LYSOPHOSPHATIDYLETHANOLAMINE	LYSOPHOSPHATIDYLETHANOLAMINE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
LYSOPHOSPHATIDYLETHANOLAMINE	LYSOPHOSPHATIDYLETHANOLAMINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
M-AMINOPHENOL	MAMINOPHENOL	591275	The European Commission restricts this ingredient to a maximum concentration of 1.2% applied to hair or eyelashes. Additionally, this ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced a reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'"	
M-AMINOPHENOL	MAMINOPHENOL	591275	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
M-AMINOPHENOL HCL	MAMINOPHENOL HCL	51810	The European Commission restricts this ingredient to a maximum concentration of 1.2% applied to hair or eyelashes. Additionally, this ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced a reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'	
M-AMINOPHENOL SULFATE	MAMINOPHENOL SULFATE	68239816	The European Commission restricts this ingredient to a maximum concentration of 1.2% applied to hair or eyelashes. Additionally, this ingredient is only permitted for professional use in products intended for coloring eyelashes. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced a reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.'	
M-CRESOL	mCresol	108394	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
M-CRESOL	Cresol	108-39-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.01% in rinseoff products (not applied to mucosa).	
M-CRESOL	Cresol	108-39-4	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
M-CRESOL	Cresol	108-39-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.01% in leaveon products (not applied to mucosa).	
M-PHENYLENEDIAMINE	mphenylenediamine	108452	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% in hair dyes.	
M-PHENYLENEDIAMINE SULFATE	MPHENYLENEDIAMINE SULFATE	541-70-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% in hair dyes.	
m-tert-BUTYLPHENYL ISOBUTYRALDEHYDE	3(mtertButylphenyl)2methylpropion aldehyde (mBMHCA)	62518654	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.12% in lip products, 0.15% in deodorants/antiperspirants, 0.62% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.86% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.98% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.97% in mouthwashes, breath sprays, and toothpastes, 0.31% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
m-tert-BUTYLPHENYL ISOBUTYRALDEHYDE	3(mtertButylphenyl)2methylpropion aldehyde (mBMHCA)	62518654	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0086 % Category 2) 0.094 % Category 3) 0.21 % Category 4) 1.8 % Category 5A) 0.45 % Category 5B) 0.28 % Category 5C) 0.42 % Category 5D) 0.094 % Category 6) 0.0086 % Category 7A) 0.37 % Category 7B) 0.37 % Category 8) 0.094 % Category 9) 0.96 % Category 10A) 0.96 % Category 10B) 3.1 % Category 11A) 0.094 % Category 11B) 0.094 % Category 12) 64 %	
m-TOLUALDEHYDE	o,m,pTolualdehydes and their mixtures	620235	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.17% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.26% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.11% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
m-TOLUALDEHYDE	o,m,pTolualdehydes and their mixtures	620235	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.085 % Category 2) 0.025 % Category 3) 0.51 % Category 4) 0.47 % Category 5A) 0.12 % Category 5B) 0.12 % Category 5C) 0.12 % Category 5D) 0.12 % Category 6) 0.28 % Category 7A) 0.96 % Category 7B) 0.96 % Category 8) 0.050 % Category 9) 0.92 % Category 10A) 3.3 % Category 10B) 3.3 % Category 11A) 1.8 % Category 11B) 1.8 % Category 12) No Restriction	
M-XYLENE-ALPHA,ALPHA'-DIOL, ALPHA'-((TERT-BUTYLAMINO)METHYL)-4-HYDROXY-	Salbutamol	18559949	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MACADAMIA INTEGRIFOLIA (MACADAMIA) NUT OIL	MACADAMIA INTEGRIFOLIA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
MACADAMIA SEED OIL POLYGLYCERYL-6 ESTERS BEHENATE	MACADAMIA SEED OIL POLYGLYCERYL6 ESTERS BEHENATE		The Cosmetic Ingredient Review has determined this ingredient to be safe as used when formulated to be nonirritating up to a concentration of 25%.	
MACADAMIA TERNIFOLIA SEED OIL	MACADAMIA TERNIFOLIA SEED OIL	128497-20-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 30%	
MACADAMIA TERNIFOLIA SEED OIL PEG-8 ESTERS	Macadamia Ternifolia Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MACADAMIA TERNIFOLIA SEED OIL PEG-8 ESTERS	MACADAMIA TERNIFOLIA SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MACROCYSTIS INTEGRIFOLIA (GIANT KELP) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
MACROCYSTIS PYRIFERA (KELP)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
MACROCYSTIS PYRIFERA (KELP)	MACROCYSTIS PYRIFERA (KELP)		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MACROCYSTIS PYRIFERA (KELP) PROTEIN	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
MACROCYSTIS PYRIFERA (KELP) PROTEIN	MACROCYSTIS PYRIFERA (KELP) PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MACROCYSTIS PYRIFERA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
MAGNESIUM ACETATE	MAGNESIUM ACETATE	142-72-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.03%.	
MAGNESIUM ALGINATE	MAGNESIUM ALGINATE	37251-44-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MAGNESIUM ALUMINUM HYDROXIDE	Aluminum Compounds	39366-43-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MAGNESIUM ALUMINUM SILICATE	Magnesium Aluminum Silicate	1327431	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
MAGNESIUM ALUMINUM SILICATE	Aluminum Compounds	1327-43-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MAGNESIUM ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MAGNESIUM ALUMINUM SULFATE	Aluminum Compounds	60778-99-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MAGNESIUM ASCORBYL PHOSPHATE	MAGNESIUM ASCORBYL PHOSPHATE	114040-31-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
MAGNESIUM ASPARTATE	MAGNESIUM ASPARTATE	1187-91-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MAGNESIUM BENZOATE	Benzoate	553-70-8	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
MAGNESIUM CITRATE	MAGNESIUM CITRATE	144-23-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
MAGNESIUM FLUORIDE	MAGNESIUM FLUORIDE	7783406	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains magnesium fluoride.'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
MAGNESIUM FLUOROSILICATE	MAGNESIUM FLUOROSILICATE	16949658	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains magnesium fluorosilicate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
MAGNESIUM FLUOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MAGNESIUM HYDROXIDE	MAGNESIUM HYDROXIDE	1309-42-8	(*) The Cosmetic Ingredient Review has determined that users should minimize skin contact for hair straighteners and depilatories that contain this ingredient.	
MAGNESIUM HYDROXIDE	MAGNESIUM HYDROXIDE	1309-42-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MAGNESIUM LANOLATE	MAGNESIUM LANOLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
MAGNESIUM LAURATE	MAGNESIUM LAURATE	4040-48-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
MAGNESIUM LAURETH SULFATE	Magnesium Laureth5 Sulfate	62755219	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH SULFATE	Magnesium Laureth16 Sulfate	62755219	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH SULFATE	Magnesium Laureth8 Sulfate	62755219	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH SULFATE	MAGNESIUM LAURETH SULFATE	62755219	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH-11 CARBOXYLATE	Magnesium Laureth11 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH-16 SULFATE	Magnesium Laureth16 Sulfate	62755219	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH-2 SULFATE	Magnesium Laureth2 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH-3 SULFOSUCCINATE	MAGNESIUM LAURETH3 SULFOSUCCINATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM LAURETH-5 SULFATE	Magnesium Laureth5 Sulfate	62755219	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MAGNESIUM LAURETH-8 SULFATE	Magnesium Laureth8 Sulfate	62755219	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM METHYL COCOYL TAURATE	MAGNESIUM METHYL COCOYL TAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MAGNESIUM MYRISTATE	MAGNESIUM MYRISTATE	4086-70-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
MAGNESIUM OLETH SULFATE	MAGNESIUM OLETH SULFATE	87569979	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM OLETH-2 SULFATE	Magnesium Oleth2 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MAGNESIUM PALMITATE	MAGNESIUM PALMITATE	2601-98-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
MAGNESIUM PALMITOYL GLUTAMATE	Magnesium palmitoyl glutamate	57539-47-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.2%	
MAGNESIUM PCA	MAGNESIUM PCA		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%	
MAGNESIUM PEG-3 COCAMIDE SULFATE	Magnesium Peg3 Cocamide Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MAGNESIUM PEROXIDE	Magnesium peroxide	1335268	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. Concentration of H2O2 present or	
MAGNESIUM PEROXIDE	MAGNESIUMPEROXIDE	1335268	Health Canada requires manufacturers of oral products containing peroxides or peroxidegenerating compounds to submit the following information: data on the pH of the cosmetic product, when it is applied to the tooth or teeth, i.e. that the pH is greater than or equal to 4.0; product labelling demonstrating that all cautionary statement requirements have been met. If an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit safety evidence that the product does not cause the saliva or soft tissue of the oral cavity to exceed 3% hydrogen peroxide, and is safe when used as directed. Required Warning: Health Canada requires the following warning text on the package/label of oral products: 'If irritation (such as redness, swelling, soreness) of the gums or the mouth occurs, discontinue use and consult a dentist'; 'Products containing peroxides are not recommended for use by children under 12 years of age'; 'Use for periods of longer than 14 days is to be only under the supervision of a dentist'; 'Avoid swallowing the cosmetic or part thereof'; 'Avoid contact of the product with the eye'; 'Avoid direct contact of the active surface of the tooth whitening product with the gums and/or salivary flow.'	
MAGNESIUM PEROXIDE	MAGNESIUM PEROXIDE	1335-26-8	According to Section 13 of Canada's Cosmetic Regulations the pH of oral products containing this ingredient must be greater than or equal to 4.0. Additionally, if an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit a clinical study to demonstrate the salivary peroxide levels do not exceed 3% during the use of the product as per the directions of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MAGNESIUM POTASSIUM FLUROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MAGNESIUM SALICYLATE	MAGNESIUM SALICYLATE	18917-89-0	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
MAGNESIUM SALICYLATE	Salicylic acid and its salts	18917890	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.5%; Not to be used in products for children under 3 years of age, except for shampoos. Required Warning: Required warning: Not to be used for children under 3 years of age***. ***Solely for products which might be used for children under 3 years of age and which remain in prolonged contact with the skin.	
MAGNESIUM SALICYLATE	MAGNESIUM SALICYLATE	18917-89-0	Per COSING, the maximum concentration in RTU preparation is 0.5%. This ingredient is not to be used in products for children under 3 years of age (except for shampoos), in oral products, or in applications that may lead to exposure of the end-user's lungs by inhalation.	x
MAGNESIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MAGNESIUM SILICATE HYDRATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MAGNESIUM SODIUM FLUROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MAGNESIUM STEARATE	MAGNESIUM STEARATE	557040	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
MAGNESIUM SULFATE	MAGNESIUM SULFATE	7487-88-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MAGNESIUM SULFIDE	magnesium sulfide	12032369	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
MAGNESIUM SULFIDE	MAGNESIUMSULFIDE	12032369	Health Canada restricts this ingredient to a maximum concentration of 6% (sulfur) in depilatory products.	
MAGNESIUM TALLOWATE	MAGNESIUM TALLOWATE	68953-41-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MAGNESIUM THIOGLYCOLATE	MAGNESIUM THIOGLYCOLATE	63592165	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professional use only.'	
MAGNESIUM THIOGLYCOLATE	MAGNESIUM THIOGLYCOLATE	63592-16-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors. Additionally, hairdressers should avoid skin contact and minimize consumer skin exposure	
MAGNESIUM TRISILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MAGNESIUM/ALUMINUM/HYDROXIDE/CARBONATE	Aluminum Compounds	11097-59-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MAGNESIUM/ALUMINUM/ZINC/HYDROXIDE/CARBONATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MAGNESIUM/TEA-COCO-SULFATE	Magnesium/TEACocoSulfate	226994996	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
MAGNETITE (FE3O4)	MAGNETITE (FE3O4)	1309-38-2	Per the U.S. FDA., iron oxides shall conform to the following specifications, all on an "as is" basis: Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 10 parts per million. Mercury (as Hg), not more than 3 parts per million.	x
MAGNETITE (FE3O4)	MAGNETITE (FE3O4)	1309-38-2	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E172)	x
MALEIC ACID	maleic acid	110-16-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.004% as a pH adjuster.	
MALEIC ANHYDRIDE	maleic anhydride	108316	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
MALEIC ANHYDRIDE	maleic anhydride	108316	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MALIC ACID	Malic Acid	617481	The Cosmetic Ingredient Review restricts the use of this ingredient as a pH adjuster.	
MALIC ACID	MALICACID	6915157	Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5 of final formulation. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	
MALTITOL	MALTITOL	585-88-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
MALTODEXTRIN	MALTODEXTRIN	9050-36-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MALTOSE	MALTOSE	69-79-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MALUS DOMESTICA FRUIT EXTRACT	MALUS DOMESTICA FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
MANGANESE CITRATE	MANGANESE CITRATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MANGANESE TRIPEPTIDE-1	MANGANESE TRIPEPTIDE-1		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MANGANESE VIOLET	Manganese Violet	10101-66-3	The U.S. Food and Drug Administration restricts the lead, arsenic, and mercury content of this ingredient to maximum concentrations of 20 ppm, 3 ppm, and 1 ppm, respectively.	
MANGANESE VIOLET	MANGANESE VIOLET	10101-66-3	Per the U.S. FDA., manganese violet shall conform to the following specifications and shall be free from impurities other than those named, to the extent that such other impurities may be avoided by good manufacturing practice: Ash (at 600 °C), not less than 81 percent. Volatile matter at 135 °C for 3 hours, not more than 1 percent. Water soluble substances, not more than 6 percent. pH of filtrate of 10 grams color additive (shaken occasionally for 2 hours with 100 milliliters of freshly boiled distilled water), not more than 4.7 and not less than 2.5. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million. Total color, based on Mn content in "as is" sample, not less than 93 percent.	x
MANGIFERA INDICA (MANGO) SEED BUTTER	MANGIFERA INDICA (MANGO) SEED BUTTER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
MANGIFERA INDICA (MANGO) SEED OIL	MANGIFERA INDICA (MANGO) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MANGO SEED OIL PEG-70 ESTERS	Mango Seed Oil Peg70 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MANGO SEED OIL PEG-70 ESTERS	MANGO SEED OIL PEG-70 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MANICOUAGAN CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
MANNAN	MANNAN	9036-88-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MANNITOL	MANNITOL	87-78-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MANNOSE	MANNOSE	3458-28-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MANUKA HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
MANUKA HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
MANUKA HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
MARINE ALGAE INFUSION	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
Mazzaella splendens (Splendid iridescent seaweed)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
MEA COCOATE	MEACOCOATE	66071805	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA O-PHENYLPHENATE	MEA OPHENYLPHENATE	84145040	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

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MEA PPG-6 LAURETH-7 CARBOXYLATE	MEA PPG6 LAURETH7 CARBOXYLATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MEA PPG-6 LAURETH-7 CARBOXYLATE	MEA PPG6 LAURETH7 CARBOXYLATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA PPG-6 LAURETH-7 CARBOXYLATE	MEA PPG-6 LAURETH-7 CARBOXYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MEA-BENZOATE	Benzoate	4337-66-0	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
MEA-BIOTINATE	MEABIOTINATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-BORATE	MEABORATE	10377818	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Lastly, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
MEA-DICETEARYL PHOSPHATE	MEADICETEARYL PHOSPHATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

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MEA-HYDROLYZED COLLAGEN	MEAHYDROLYZED COLLAGEN		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-HYDROLYZED COLLAGEN	MEA-HYDROLYZED COLLAGEN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MEA-HYDROLYZED SILK	MEAHYDROLYZED SILK		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-LAURETH SULFATE	MEALAURETH SULFATE	68184043	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MEA-LAURETH SULFATE	MEALAURETH SULFATE	68184043	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-LAURETH-6 CARBOXYLATE	MEALAURETH6 CARBOXYLATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MEA-LAURETH-6 CARBOXYLATE	MEALAURETH6 CARBOXYLATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-LAURYL SULFATE	MEALAURYL SULFATE	4722989	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-PPG-8-STEARETH-7 CARBOXYLATE	MEAPPG8STEARETH7 CARBOXYLATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-PPG-8-STEARETH-7 CARBOXYLATE	MEA-PPG-8-STEARETH-7 CARBOXYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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MEA-SALICYLATE	MEASALICYLATE	59866705	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-SALICYLATE	Salicylic acid and its salts	59866705	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.5%; Not to be used in products for children under 3 years of age, except for shampoos. Required Warning: Required warning: Not to be used for children under 3 years of age***. ***Solely for products which might be used for children under 3 years of age and which remain in prolonged contact with the skin.	
MEA-SALICYLATE	MEA-SALICYLATE	59866-70-5	Per COSING, the maximum concentration in RTU preparation is 0.5%. This ingredient is not to be used in products for children under 3 years of age (except for shampoos), in oral products, or in applications that may lead to exposure of the end-user's lungs by inhalation.	x
MEA-SULFITE	MEASULFITE	13427639	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEA-THIOLACTATE	MEATHIOLACTATE	54266385	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MEADOWFOAMAMIDOPROPYL BETAINE	MEADOWFOAMAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
MELALEUCA ALTERNIFOLIA (TEA TREE)	MELALEUCA ALTERNIFOLIA (TEA TREE)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA (TEA TREE)	MELALEUCA ALTERNIFOLIA (TEA TREE)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MELALEUCA ALTERNIFOLIA (TEA TREE) EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA (TEA TREE) EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA (TEA TREE) EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
MELALEUCA ALTERNIFOLIA (TEA TREE) FLOWER/LEAF/STEM EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) FLOWER/LEAF/STEM EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA (TEA TREE) FLOWER/LEAF/STEM EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) FLOWER/LEAF/STEM EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA (TEA TREE) FLOWER/LEAF/STEM EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) FLOWER/LEAF/STEM EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF	85085489	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF	MELALEUCA ALTERNIFOLIA LEAF WATER	85085489	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF	85085489	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF	MELALEUCA ALTERNIFOLIA LEAF WATER	85085489	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF EXTRACT	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	68647734	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	68647734	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	68647734	Based on an SCCP (European Commission, Scientific Committee on Consumer Products) opinion, this substance must contain less than 8% p-cymene to indicate lack of oxidative degradation.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF POWDER	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF WATER	MELALEUCA ALTERNIFOLIA LEAF WATER	85085489	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF WATER	MELALEUCA ALTERNIFOLIA LEAF WATER	85085489	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF WATER	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF WATER	85085-48-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
MELALEUCA ALTERNIFOLIA FLOWER/LEAF/STEM OIL	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	68647734	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MELALEUCA ALTERNIFOLIA FLOWER/LEAF/STEM OIL	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	68647734	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MELALEUCA ALTERNIFOLIA FLOWER/LEAF/STEM OIL	MELALEUCA ALTERNIFOLIA (TEA TREE) LEAF OIL	68647734	Based on an SCCP (European Commission, Scientific Committee on Consumer Products) opinion, this substance must contain less than 8% p-cymene to indicate lack of oxidative degradation.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MELAMINE PEROXIDE	MELAMINE PEROXIDE		The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. Concentration of H2O2 present or released must not exceed 6% in tooth whitening or bleaching products. The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	
MELIBIOSE	MELIBIOSE	585-99-9		x
MELISSA OFFICINALIS (BALM MINT) EXTRACT	Melissa oil (genuine Melissa officinalis L.)	84082611	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.21% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.63% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.33% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.01% in mouthwashes, breath sprays, and toothpastes, 0.11% in intimate wipes, and baby wipes, 1.4% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
MELISSA OFFICINALIS (BALM MINT) EXTRACT	Melissa oil (genuine Melissa officinalis L.)	84082611	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11% Category 2) 0.032% Category 3) 0.65% Category 4) 0.60% Category 5A) 0.15% Category 5B) 0.15% Category 5C) 0.15% Category 5D) 0.15% Category 6) 0.35% Category 7A) 1.2% Category 7B) 1.2% Category 8) 0.063% Category 9) 1.2% Category 10A) 4.2% Category 10B) 4.2% Category 11A) 2.3% Category 11B) 2.3% Category 12) No Restriction	
MENTHA AUSTRALIS	PEPPERMINT (MENTHA PIPERITA) LEAVES		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT)	MENTHA PIPERITA (PEPPERMINT) LEAF		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT)	MENTHA PIPERITA (PEPPERMINT) LEAF EXTRACT		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MENTHA PIPERITA (PEPPERMINT)	MENTHA PIPERITA (PEPPERMINT) LEAF WATER		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT)	MENTHA PIPERITA (PEPPERMINT) OIL		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT)	PEPPERMINT (MENTHA PIPERITA) OIL		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT)	PEPPERMINT (MENTHA PIPERITA) EXTRACT		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT)	PEPPERMINT (MENTHA PIPERITA) LEAVES		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT)	PEPPERMINT (MENTHA PIPERITA) WATER		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product..	
MENTHA PIPERITA (PEPPERMINT) EXTRACT	MENTHA PIPERITA (PEPPERMINT) LEAF EXTRACT		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT) EXTRACT	PEPPERMINT (MENTHA PIPERITA) EXTRACT		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT) EXTRACT	MENTHA PIPERITA (PEPPERMINT) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
MENTHA PIPERITA (PEPPERMINT) LEAF	MENTHA PIPERITA (PEPPERMINT) LEAF		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT) LEAF	PEPPERMINT (MENTHA PIPERITA) LEAVES		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT) LEAF JUICE	MENTHA PIPERITA (PEPPERMINT) LEAF JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
MENTHA PIPERITA (PEPPERMINT) LEAF WATER	MENTHA PIPERITA (PEPPERMINT) LEAF WATER		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHA PIPERITA (PEPPERMINT) LEAF WATER	PEPPERMINT (MENTHA PIPERITA) WATER		The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product..	
MENTHA PIPERITA (PEPPERMINT) OIL	PEPPERMINT (MENTHA PIPERITA) OIL	8006-90-4	The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MENTHOL	MENTHA PIPERITA (PEPPERMINT) OIL	89-78-1	The Cosmetic Ingredient Review restricts the pulegone content to a maximum concentration of 1% in the finished product.	
MERCURY, (2-METHOXYETHYL)(TRIHYDROGEN ORTHOSILICATO)-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MERCURY, (HYDROGEN METASILICATO)(2-METHOXYETHYL)-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
METHACRYLIC ACID	Methacrylic acid	79414	The Cosmetic Ingredient Review restricts the use of this ingredient as a nail primer.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHACRYLIC ACID	METHACRYLICACID	79414	Required Warning: Health Canada requires the following warning text on the label/package of liquid products containing more than more than 5% methacrylic acid: 'This product contains methacrylic acid, is poisonous, is to be kept out of reach of children and, in the case of accidental ingestion, a Poison Control Centre or physician is to be contacted immediately'.	
METHACRYLOYL ETHYL BETAINE/ ACRYLATES COPOLYMER	METHACRYLOYL ETHYL BETAINE/ ACRYLATES COPOLYMER	87435-35-6	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
METHANOL	methanol	67561	The European Commission restricts this ingredient to a maximum concentration of 5% (as a percentage of ethanol and isopropyl alcohol).	
METHANOL	Methyl alcohol	67561	The Cosmetic Ingredient Review restricts the use of this ingredient as a denaturant.	
METHANOL	METHYLALCOHOL	67561	Required Warning: Health Canada requires that the product is packaged in a childresistant container if it contains at least 5 mL of methyl alcohol. Additionally, manufacturers must follow appropriate labeling guidelines according to the Canadian Consumer Chemicals and Containers Regulations.	
METHENAMINE	Methenamine	100970	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.16%, and it may not be used in aerosol products.	
METHENAMINE	Methenamine	100970	(*) The European Commission restricts this ingredient to a maximum concentration of 0.15%	
METHENAMINE	METHENAMINE	100-97-0	Per COSING, the maximum concentration in RTU preparation is 0.15%.	x
METHICONE	METHICONE	9004-73-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
METHICONE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
METHIONINE	METHIONINE	59-51-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
METHOXY AMODIMETHICONE/ SILSEQUIOXANE COPOLYMER	METHOXY AMODIMETHICONE/ SILSEQUIOXANE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
METHOXY AMODIMETHICONE/SILSESQUIOXANE COPOLYMER	METHOXY AMODIMETHICONE/SILSESQUIOXANE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
METHOXY PEG-10	METHOXY PEG10	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHOXY PEG-100	METHOXY PEG100	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-100/POLYEPSILON CAPROLACTONE	METHOXY PEG100/POLYEPSILON CAPROLACTONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-100/POLYEPSILON CAPROLACTONE	METHOXY PEG100/POLYEPSILON CAPROLACTONE		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
METHOXY PEG-114/POLYEPSILON CAPROLACTONE	METHOXY PEG114/POLYEPSILON CAPROLACTONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-114/POLYEPSILON CAPROLACTONE	METHOXY PEG114/POLYEPSILON CAPROLACTONE		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
METHOXY PEG-12 RETINAMIDE	Methoxy Peg12 Retinamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-16	METHOXY PEG16	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-17/DODECYL GLYCOL COPOLYMER	Methoxy Peg17/dodecyl Glycol Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-17/METHOXY PEG-11/HDI CROSSPOLYMER	METHOXY PEG-17/METHOXY PEG-11/HDI CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
METHOXY PEG-22 POLYDODECYL GLYCOL	Methoxy Peg22 Polydodecyl Glycol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-22/ DODECYL GLYCOL COPOLYMER	Methoxy Peg22/ Dodecyl Glycol Copolymer	89678444	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-25	METHOXY PEG25	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHOXY PEG-40	METHOXY PEG40	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-450 AMIDO HYDROXYSUCCINIMIDYL SUCCINAMATE	Methoxy Peg450 Amido Hydroxysuccinimidyl Succinamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-450 ETHYLMALEIMIDE	Methoxy Peg450 Ethylmaleimide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-7	METHOXY PEG7	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-7 ACORBIC ACID	Methoxy Peg7 Acorbic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG-7 ASCORBIC ACID	Methoxy Peg7 Ascorbic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG/ PPG-7/ 3 AMINOPROPYL DIMETHICONE	Methoxy Peg/ Ppg7/ 3 Aminopropyl Dimethicone	298211684	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXY PEG/ PPG-7/ 3 AMINOPROPYL DIMETHICONE	METHOXY PEG/ PPG-7/ 3 AMINOPROPYL DIMETHICONE	298211-68-4	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
METHOXY-PEG-7 RUTINYL SUCCINATE	MethoxyPeg7 Rutinyl Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHOXYCINNAMOYLPROPYL SILSESQUIOXANE SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYL 2-OCTYNOATE	METHYL 2OCTYNOATE	111126	The European Commission restricts this ingredient to a maximum concentration of 0.01% when used alone in nonoral products. When the substance is present in combination with methyl octine carbonate, the combined level in the finished product cannot exceed 0.01% (of which methyl octine carbonate cannot be more than 0.002%). Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
METHYL 2-OCTYNOATE	Methyl heptine carbonate	111126	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.01% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.01% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.01% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.08% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.01% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
METHYL 2-OCTYNOATE	Methyl heptine carbonate	111126	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0085 % Category 2) 0.0025 % Category 3) 0.051 % Category 4) 0.047 % Category 5A) 0.012 % Category 5B) 0.012 % Category 5C) 0.012 % Category 5D) 0.012 % Category 6) 0.028 % Category 7A) 0.096 % Category 7B) 0.096 % Category 8) 0.0050 % Category 9) 0.092 % Category 10A) 0.33 % Category 10B) 0.33 % Category 11A) 0.18 % Category 11B) 0.18 % Category 12) No Restriction	
METHYL 2,6,10-TRIMETHYLCYCLODODECA-2,5,9-TRIENYL KETONE	Acetic, anhydride, reaction products with 1,5,10trimethyl1,5,9cyclododecatriene	28371995	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.16% in lip products, 0.2% in deodorants/antiperspirants, 0.83% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.49% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.31% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 3.99% in mouthwashes, breath sprays, and toothpastes, 0.42% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
METHYL 2,6,10-TRIMETHYLCYCLODODECA-2,5,9-TRIENYL KETONE	Acetic acid, anhydride, reaction products with 1,5,10trimethyl1,5,9cyclododecatriene	28371995	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00016 % Category 2) 0.13 % Category 3) 0.40 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.52 % Category 5C) 0.60 % Category 5D) 0.17 % Category 6) 0.00016 % Category 7A) 0.87 % Category 7B) 0.87 % Category 8) 0.17 % Category 9) 2.2 % %Category 10A) 2.2 % Category 10B) 4.4 % Category 11A) 0.17 % Category 11B) 0.17 % Category 12) No Restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYL 4-T-BUTYLBENZOATE	Benzoate	26537-19-9	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
METHYL ACRYLAMIDOGLYCOLATE (CONTAINING 0.1% ACRYLAMIDE)	METHYL ACRYLAMIDOGLYCOLATE (CONTAINING ³ 0,1 % ACRYLAMIDE)	77402052	The European Commission bans this ingredient from use in cosmetics if its acrylamide content is greater than or equal to 0.1%.	
METHYL ACRYLAMIDOMETHOXYACETATE (CONTAINING 0.1% ACRYLAMID)	METHYL ACRYLAMIDOMETHOXYACETATE (CONTAINING ³ 0,1 % ACRYLAMID)	77402030	The European Commission bans this ingredient from use in cosmetics if its acrylamide content is greater than or equal to 0.1%.	
METHYL BENZOATE	Benzoate	93-58-3	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
METHYL BENZOATE	METHYL BENZOATE	93-58-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
METHYL COCOATE	METHYL COCOATE	61788-59-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.06%.	
METHYL CYCLODEXTRIN	METHYL CYCLODEXTRIN	128446-36-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
METHYL DICOCAMINE	METHYL DICOCAMINE	61788623	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
METHYL EUGENOL	Methyl eugenol	93152	The European Commission restricts this substance to a maximum concentration of 0.01% in fine fragrance, 0.004% in eau de toilette products, 0.002% in fragrance creams, 0.0002% in other leaveon and oral products, and 0.001% in rinseoff products.	
METHYL EUGENOL	Methyleugenol	93152	Health Canada restricts this ingredient as a naturally occurring component in botanical extracts to a maximum concentration of 0.01%, provided concentrations do not exceed 0.01% in fine fragrances, 0.004% in eau de toilette, 0.002% in a fragrance cream, 0.0002% in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
METHYL EUGENOL	Methyl eugenol	93152	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
METHYL FORMYLAMINOBENZOATE	METHYL NFORMYLANTHRANILATE	41270808	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.10 % Category 2) 0.10 % Category 3) 0.10 % Category 4) 0.10 % Category 5A) 0.10 % Category 5B) 0.10 % Category 5C) 0.10 % Category 5D) 0.10 % Category 6) 0.10 % Category 7A) No Restriction Category 7B) 0.10 % Category 8) 0.10 % Category 9) No Restriction Category 10A) No Restriction Category 10B) 0.10 % Category 11A) No Restriction Category 11B) 0.10 % Category 12) No Restriction; this material has been identified for having the potential of forming nitrosamines in nitrosating systems. Downstream users therefore have to be notified of the presence of the material and its potential, to be able to consider adequate protective measures.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYL GLUCETH-10	Methyl Gluceth10	68239-42-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHYL GLUCETH-10	Methyl Gluceth20	68239429	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 15%.	
METHYL GLUCETH-20	Methyl Gluceth10	68239-42-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHYL GLUCETH-20 BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
METHYL GLYCYRRHIZATE	METHYL GLYCYRRHIZATE	104191-95-9	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: pesticides/PCBs, toxic metals, and heavy metals.	
METHYL METHACRYLATE	Methyl Methacrylate	80626	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
METHYL METHACRYLATE	Methyl Methacrylate	80626	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
METHYL METHACRYLATE CROSSPOLYMER	METHYL METHACRYLATE CROSSPOLYMER	25777-71-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
METHYL METHACRYLATE CROSSPOLYMER	METHYL METHACRYLATE CROSSPOLYMER	25777-71-3	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
METHYL METHACRYLATE/GLYCOL DIMETHACRYLATE CROSSPOLYMER	METHYL METHACRYLATE/GLYCOL DIMETHACRYLATE CROSSPOLYMER	25777-71-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
METHYL METHACRYLATE/GLYCOL DIMETHACRYLATE CROSSPOLYMER	METHYL METHACRYLATE/GLYCOL DIMETHACRYLATE CROSSPOLYMER	25777-71-3	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
METHYL N-METHYLANTHRANILATE	METHYLN METHYLANTHRANILATE	85916	Health Canada restricts this ingredient to a maximum concentration of 0.1%..	
METHYL N-METHYLANTHRANILATE	METHYL NMETHYLANTHRANILATE	85916	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in leaveon products	
METHYL N-METHYLANTHRANILATE	METHYL NMETHYLANTHRANILATE	85916	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.10% Category 2) 0.10% Category 3) 0.10% Category 4) 0.10% Category 5A) 0.10% Category 5B) 0.10% Category 5C) 0.10% Category 5D) 0.10% Category 6) 0.10% Category 7A) no restriction Category 7B) 0.10% Category 8) 0.10% Category 9) no restriction Category 10A) no restriction Category 10B) 0.10% Category 11A) no restriction Category 11B) 0.10% Category 12) no restriction	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYL NAPHTHYL KETONE	Methyl βnaphthyl ketone	93083	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in leaveon products	
METHYL NAPHTHYL KETONE	Methyl βnaphthyl ketone	93083	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.20% Category 2) 0.20% Category 3) 0.20% Category 4) 0.20% Category 5A) 0.20% Category 5B) 0.20% Category 5C) 0.20% Category 5D) 0.20% Category 6) 0.20% Category 7A) no restriction Category 7B) 0.20% Category 8) 0.20% Category 9) no restriction Category 10A) no restriction Category 10B) 0.20% Category 11A) no restriction Category 11B) 0.20% Category 12) no restriction	
METHYL OCTINE CARBONATE	METHYL OCTINE CARBONATE	111808	The European Commission restricts this ingredient to a maximum concentration of 0.002% when used alone in nonoral products. When present in combination with methyl heptine carbonate, the combined level in the finished product should not exceed 0.01% (of which methyl octine carbonate should not be more than 0.002%).	
METHYL OCTINE CARBONATE	METHYL OCTINE CARBONATE	111808	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.02% in mouthwashes, breath sprays, and toothpastes, 0% in intimate wipes, and baby wipes, 0% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
METHYL OCTINE CARBONATE	METHYL OCTINE CARBONATE	111808	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0018 % Category 2) 0.00055 % Category 3) 0.011 % Category 4) 0.010 % Category 5A) 0.0026 % Category 5B) 0.0026 % Category 5C) 0.0026 % Category 5D) 0.0026 % Category 6) 0.0061 % Category 7A) 0.021 % Category 7B) 0.021 % Category 8) 0.0011 % Category 9) 0.020 % Category 10A) 0.072 % Category 10B) 0.072 % Category 11A) 0.040 % Category 11B) 0.040 % Category 12) No Restriction	
METHYL SALICYLATE	METHYLSALICYLATE	119368	Health Canada restricts this ingredient to a maximum concentration of 1%.	
METHYL THIOGLYCOLATE	METHYL THIOGLYCOLATE	2365482	The European Commission restricts this ingredient to a maximum concentration of 8% (calculated as thioglycolic acid) in hair waving products and 11% (calculated as thioglycolic acid) in hair straightening products. Required Warning: The European Commission requires the following conditions of use on the label/package of general and professional use hair waving or straightening products: 'May cause sensitization in the event of skin contact'; 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'; 'Wear suitable gloves'. Additionally, the following warning text are required: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Lastly, the following warning must also be labeled in addition to the above on professional use hair waving or straightening products: 'For professional use only'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYL THIOGLYCOLATE	METHYL THIOGLYCOLATE	2365-48-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
METHYL TRIMETHICONE	METHYL TRIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
METHYLBENZETHONIUM CHLORIDE METHYLBENZETHONIUM CHLORIDE	Methylbenzethonium chloride	25155-18-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5% in skin products and 0.02% in eye products.	
METHYLCELLULOSE	Methylcellulose	9004-67-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 20%.	
METHYLCHLOROISOTHIAZOLINONE	Methylchloroisothiazolinone	26172554	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15 ppm in rinseoff products and 7.5 ppm in leaveon products.	
METHYLCHLOROISOTHIAZOLINONE	Methylchloroisothiazolinone	26172554	Health Canada restricts this ingredient to a maximum concentration of 0.0015% in rinseoff products and prohibited in leaveon products. Additionally, the ingredient is only permitted in combination with methylisothiazolinone.	
METHYLCHLOROISOTHIAZOLINONE	Methylchloroisothiazolinone	26172-55-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of approximately 0.075% in rinseoff products (not applied to mucosa) when combined with methyl isothiazolinone.	
METHYLCHLOROISOTHIAZOLINONE	Methylchloroisothiazolinone	26172-55-4	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa when combined with methyl isothiazolinone.	
METHYLCHLOROISOTHIAZOLINONE	Methylchloroisothiazolinone	26172-55-4	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in leaveon products (not applied to mucosa) when combined with methyl isothiazolinone.	
METHYLCHLOROISOTHIAZOLINONE	Methylchloroisothiazolinone	26172554	(*) Health Canada restricts the use of this ingredient to leaveon products when used in combination with methylisothiazolinone, and a maximum concentration of 0.0015% in rinseoff products. Required Warning: (*) Restricted to 0.0015% in rinseoff products.	
METHYLCHLOROISOTHIAZOLINONE	METHYLCHLOROISOTHIAZOLINONE	26172-55-4	Per COSING, the maximum concentration in RTU preparation is 0.0015% (of a mixture in the ratio 3:1 of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one).	x
METHYLCINNAMIC ALDEHYDE	αMethyl cinnamic aldehyde	101393	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.1% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.6% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.8% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 2.5% in mouthwashes, breath sprays, and toothpastes, 0.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYLCINNAMIC ALDEHYDE	αMethyl cinnamic aldehyde	101393	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.27 % Category 2) 0.080 % Category 3) 1.6 % Category 4) 1.5 % Category 5A) 0.38 % Category 5B) 0.38 % Category 5C) 0.38 % Category 5D) 0.38 % Category 6) 0.88 % Category 7A) 3.1 % Category 7B) 3.1 % Category 8) 0.16 % Category 9) 2.9 % Category 10A) 11 % Category 10B) 11 % Category 11A) 5.8 % Category 11B) 5.8 % Category 12) No Restriction	
METHYLDIBROMO GLUTARONITRILE	Methyldibromo Glutaronitrile	35691657	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.025% in leaveon products.	
Methylene Glycol	Methylene Glycol		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% (as formalin; 0.074% as formaldehyde or 0.118% as methylene glycol). Additionally, this ingredient cannot be used in hair smoothing products.	
Methylene Glycol	METHYLENEGLYCOL	463570	Health Canada restricts this ingredient to a maximum concentration of 0.01% in nonaerosol products that release formaldehyde vapours (when used according to directions), 0.1% in oral products, 0.2% in nonoral cosmetics (when used as a preservative only), and 5% in nail hardening products (it must be sold with nail shields, directions for use and directions that inform the user about the presence of this substance in the cosmetic). This ingredient is prohibited in aerosol products. Required Warning: Health Canada requires the following warning text on the packaging/label of nail hardening products: 'This product contains formaldehyde which has the potential to cause skin sensitivity.'	
METHYLENEDIOXYPHENYL METHYLPROPANAL	αMethyl,3benzodioxole5propionaldehyde (MMDHCA)	1205170	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.34% in lip products, 0.43% in deodorants/antiperspirants, 1.78% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 5.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 2.8% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 8.6% in mouthwashes, breath sprays, and toothpastes, 0.89% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
METHYLENEDIOXYPHENYL METHYLPROPANAL	αMethyl,3benzodioxole5propionaldehyde (MMDHCA)	1205170	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.12% Category 2) 0.25% Category 3) 0.039% Category 4) 2.6% Category 5A) 0.39% Category 5B) 0.077% Category 5C) 0.077% Category 5D) 0.026% Category 6) 0.62% Category 7A) 0.077% Category 7B) 0.077% Category 8) 0.026% Category 9) 0.15% Category 10A) 0.15% Category 10B) 0.62% Category 11A) 0.026% Category 11B) 0.026% Category 12) 12%	
METHYLEUGENYL DIMETHICONE COPOLYOL	METHYLEUGENYL DIMETHICONE COPOLYOL		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYLEUGENYL PEG-8 DIMETHICONE	Methyleugenyl Peg8 Dimethicone	200443932	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHYLEUGENYL PEG-8 DIMETHICONE	METHYLEUGENYL PEG-8 DIMETHICONE	200443-93-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
METHYLHEPTADIENONE	METHYLHEPTADIENONE	1604280	The European Commission restricts this ingredient to a maximum concentration of 0.002% in nonoral products.	
METHYLHEPTADIENONE	6Methyl3,5heptadien2one (methyl heptadienone)	1604280	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.1% in mouthwashes, breath sprays, and toothpastes, 0% in intimate wipes, and baby wipes, 0% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
METHYLHEPTADIENONE	6METHYL3,5HEPTADIEN2ONE	1604280	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0085 % Category 2) 0.0025 % Category 3) 0.051 % Category 4) 0.047 % Category 5A) 0.012 % Category 5B) 0.012 % Category 5C) 0.012 % Category 5D) 0.012 % Category 6) 0.028 % Category 7A) 0.096 % Category 7B) 0.096 % Category 8) 0.0050 % Category 9) 0.092 % Category 10A) 0.33 % Category 10B) 0.33 % Category 11A) 0.18 % Category 11B) 0.18 % Category 12) No Restriction	
METHYLIONONE	Methyl ionone, mixed isomers	1335462	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in lip products, 2.59% in deodorants/antiperspirants, 10.56% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 31.67% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 16.67% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 50.72% in mouthwashes, breath sprays, and toothpastes, 5.3% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYLIONONE	Methyl ionone, mixed isomers	1335462	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 5.4% Category 2) 1.6% Category 3) 32% Category 4) 30% Category 5A) 7.6% Category 5B) 7.6% Category 5C) 7.6% Category 5D) 7.6% Category 6) 18% Category 7A) 61% Category 7B) 61% Category 8) 3.2% Category 9) 59% Category 10A) 100% Category 10B) 100% Category 11A) 100% Category 11B) 100% Category 12) No Restriction; A level of up to 2% of Pseudo methyl ionones as an impurity in Methyl ionones is accepted.	
METHYLISOTHIAZOLINONE	methylisothiazolinone	2682-20-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 100 ppm.	
METHYLISOTHIAZOLINONE	methylisothiazolinone	2682204	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 100 ppm.	
METHYLISOTHIAZOLINONE	methylisothiazolinone	2682204	Health Canada restricts this ingredient to a maximum concentration of 0.01% as a preservative.	
METHYLISOTHIAZOLINONE	methylisothiazolinone	2682-20-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in rinseoff products (not applied to mucosa).	
METHYLISOTHIAZOLINONE	methylisothiazolinone	2682-20-4	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
METHYLISOTHIAZOLINONE	methylisothiazolinone	2682-20-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in leaveon products (not applied to mucosa).	
METHYLISOTHIAZOLINONE	2Methyl2Hisothiazol3one	2682204	The European Commission restricts this ingredient to a maximum concentration of 0.0015% in rinse off products	
METHYLISOTHIAZOLINONE	2Methyl2Hisothiazol3one	2682-20-4	The European Commission restricts this ingredient to a maximum concentration of 0.0015% in rinseoff products.	
METHYLISOTHIAZOLINONE	METHYLISOTHIAZOLINONE	2682-20-4	Per COSING, the maximum concentration in RTU preparation is 0.0015% in rinse-off products	x
METHYLPARABEN	Methylparaben	99763	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
METHYLPARABEN	METHYLPARABEN	99-76-3	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
METHYLPARABEN	METHYLPARABEN	99-76-3	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
METHYLPARABEN	METHYLPARABEN	99-76-3	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
METHYLPROPANEDIOL	METHYLPROPANEDIOL	2163420	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 21.2%.	
METHYLSILANOL PEG-7 GLYCERYL COCOATE	Methylsilanol Peg7 Glyceryl Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
METHYLSILANOL TRI-PEG-8 GLYCERYL COCOATE	Methylsilanol TriPeg8 Glyceryl Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
METHYLSILANOL/SILICATE CROSSPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
METHYLSTYRENE/ VINYL TOLUENE COPOLYMER	METHYLSTYRENE/ VINYL TOLUENE COPOLYMER	9017-27-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MEXORYL SX	TEREPHTHALYLDENEDICAMPHOR SULFONICACID	90457-82-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
MEXORYL SX	TEREPHTHALYLDENEDICAMPHOR SULFONICACID	90457-82-2	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
MEXORYL SX	TEREPHTHALYLDENEDICAMPHOR SULFONICACID	90457-82-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
MIBK	Methyl isobutyl ketone	108101	The Cosmetic Ingredient Review has determined that this ingredient is safe in nail polish removers, and safe as used up to a concentration of 4% as an alcohol denaturant.	
MIBK	MIBK	108101	The Cosmetic Ingredient Review has determined that this ingredient is safe in nail polish removers, and safe as used up to a concentration of 4% as an alcohol denaturant.	
MICA	CLAYS AND MINERALS	12001-26-2	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
MICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
MICA	MICA	12001-26-2	Per the U.S. FDA., mica shall conform to the following specifications and shall be free from impurities other than those named to the extent that such other impurities may be avoided by good manufacturing practice: Fineness, 100 percent shall pass through a 100-mesh sieve. Loss on ignition at 600-650 °C, not more than 2 percent. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million.	x
MICELLIZED VITAMIN A	Retinol		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
MICELLIZED VITAMIN A	retinyl palmitate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
MICELLIZED VITAMIN A	Retinol	68268	Health Canada restricts this ingredient to a maximum concentration of 1% (as retinol equivalents).	
MICELLIZED VITAMIN A	RETINYL PALMITATE	79812	Health Canada restricts this ingredient to a maximum concentration of 1.83%.	
Michelia alba extract	Michelia alba extract	92457186	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Michelia alba extract	Michelia alba extract	92457186	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MICHELIA ALBA FLOWER OIL	MICHELIA ALBA FLOWER OIL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MICHELIA ALBA FLOWER OIL	MICHELIA ALBA FLOWER OIL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MICHELIA ALBA LEAF OIL	MICHELIA ALBA LEAF OIL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MICHELIA ALBA LEAF OIL	MICHELIA ALBA LEAF OIL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MICROCITRUS AUSTRALIS FRUIT EXTRACT	Microcitrus Australis Fruit Extract		(*) The Cosmetic Ingredient Review restricts the 5methoxypsoralen concentration of this ingredient to a maximum concentration of 0.0015% in the final product for leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MICROCRYSTALLINE WAX (CERA MICROCRISTALLINA)	MICROCRYSTALLINE WAX	63231607; 64742423	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 3% and PAH levels must be below 10 ppb. Mineral waxes must have an average molecular weight of at least 500 Daltons and a viscosity value greater than or equal to 11 centistokes at 100oC or greater than or equal to 8 centistokes at 120oC. Additionally, no more than 5% of hydrocarbons with a chain length less than C25 may be present.	
MIDORI205	Aluminum Compounds	5141-20-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MIDORI401	Trisodium tris[5,6dihydro5(hydroxyimino)6oxo naphthalene2sulphonato(2)N5,O6]ferate(3)	19381-50-1	(*) The European Commission prohibits the use of this ingredient in products applied to mucous membranes.	
MIDORI401	MIDORI401	19381-50-1	Per COSING, prohibited for use in products applied on mucous membranes.	x
MILK AMINO ACIDS	MILK AMINO ACIDS	92797-39-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MILK PROTEIN	MILK PROTEIN	91053-68-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MILK PROTEIN EXTRACT	MILK PROTEIN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MILKAMIDOPROPYL BETAINE	MILKAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
MINERAL OIL	MINERAL OIL	8012951; 8042475	This ingredient can bioaccumulate in human tissues and is prohibited in lip and oral products. It is restricted in other product categories based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment. The ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 0.2% and less than 250 ppm MOAH after refining. High viscosity mineral oils must have a carbon chain length of at least C28 atoms (at 5% boiling point), a molecular mass of at least 500 Daltons and a viscosity value of 11 centistokes. Lowmedium viscosity mineral oils must have a carbon chain length of at least C25 atoms (at 5% boiling point), a molecular mass of 480500 Daltons and a viscosity value of 8.511 centistokes.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MINERAL OIL	MINERAL OIL	8012951; 8042475	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material with DMSO extractives below 3% and PAH levels must be below 10 ppb. High viscosity mineral oils must have an average molecular mass of at least 500 Daltons, a viscosity value greater than 11 centistokes and no more than 5% of hydrocarbons with a chain length less than C28 may be present. Lowmedium viscosity mineral oils must have an average molecular mass of 480500 Daltons, a viscosity value of 8.511 centistokes, and no more than 5% of hydrocarbons with a carbon chain length less than C25 atoms may be present	
MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED HEAVY NAPHTHENIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED HEAVY NAPHTHENIC (MILD OR NOSOLVENT	64742683	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED HEAVY PARAFFINIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED HEAVY PARAFFINIC (MILD OR NOSOLVENT	64742707	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED LIGHT NAPHTHENIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED LIGHT NAPHTHENIC (MILD OR NOSOLVENT	64742694	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED LIGHT PARAFFINIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES CATALYTIC DEWAXED LIGHT PARAFFINIC (MILD OR NOSOLVENT	64742718	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY NAPHTHENIC	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY NAPHTHENIC	64742525	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC	64742547	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) LIGHT NAPHTHENIC	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) LIGHT NAPHTHENIC	64742536	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) LIGHT PARAFFINIC	MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) LIGHT PARAFFINIC	64742558	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY NAPHTHENIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENTDEWAXED HEAVY NAPHTHENIC (MILD OR NOSOLVENT	64742638	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENTDEWAXED HEAVY PARAFFINIC (MILD OR NOSOLVENT	64742650	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED LIGHT NAPHTHENIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENTDEWAXED LIGHT NAPHTHENIC (MILD OR NOSOLVENT	64742649	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED LIGHT PARAFFINIC (MILD OR NOSOLVENT-	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENTDEWAXED LIGHT PARAFFINIC (MILD OR NOSOLVENT	64742569	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
MINERAL PIGMENTS	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
MINERAL SALTS	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MINERAL SPIRITS	Mineral Spirits	8032324	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
MINK OIL	MINK OIL	8023743	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides.	
MINK OIL PEG-13 ESTERS	Mink Oil Peg13 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MINK OIL PEG-13 ESTERS	MINK OIL PEG-13 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MINKAMIDE DEA	MINKAMIDE DEA	124046271	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MINKAMIDE DEA	MINKAMIDE DEA	124046-27-1	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
MINKAMIDOPROPYL DIMETHYLAMINE	MINKAMIDOPROPYL DIMETHYLAMINE	68953-11-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
MIPA C12-15 PARETH SULFATE	MIPA C1215 PARETH SULFATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MIPA-BORATE	MIPABORATE	68003134	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Lastly, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
MIPA-BORATE	MIPA-BORATE	68003-13-4	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
MIPA-DODECYLBENZENESULFONATE	MIPADODECYLBENZENESULFONATE	42504461	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MIPA-LAURETH SULFATE	MIPALAURETH SULFATE	83016766	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MIPA-LAURETH SULFATE	MIPALAURETH SULFATE	83016766	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MIPA-LAURYL SULFATE MIPA-LAURYL SULFATE	MIPALAURYL SULFATE MIPALAURYL SULFATE	21142289	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MIPA-MYRISTATE	MIPAMYRISTATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MIPA-MYRISTATE	MIPA-MYRISTATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MIXED CITRUS OILS	Citrus oils and other furocoumarins containing essential oils (Bergapten)		The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
MIXED CITRUS OILS	Citrus oils and other furocoumarins containing essential oils		Based on the IFRA 49th Amendment, the Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient is restricted in the finished product according to product use and category (as outlined in the 49th amendment): Category 1 - 0.0015% (5MOP); Category 2 - 0.0015% (5MOP); Category 3 - 0.0015% (5MOP); Category 4 - 0.0015% (5MOP); Category 5a - 0.0015% (5MOP); Category 5b - 0.0015% (5MOP); Category 5c - 0.0015% (5MOP); Category 5d - 0.0015% (5MOP); Category 6 - 0.0015% (5MOP); Category 7a - no restriction; Category 7b - 0.0015% (5MOP); Category 8 - 0.0015% (5MOP); Category 9 - no restriction; Category 10a - no restriction; Category 10b - 0.0015% (5MOP); Category 11a - no restriction; Category 11b - 0.0015% (5MOP); Category 12 - no restriction	
MIXED CRESOLS	Cresol	1319-77-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.01% in rinseoff products (not applied to mucosa).	
MIXED CRESOLS	Cresol	1319-77-3	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
MIXED CRESOLS	Cresol	1319-77-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.01% in leaveon products (not applied to mucosa).	
MIXED ISOPROPANOLAMINES	MIXED ISOPROPANOLAMINES		The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
MIXED LINEAR AND BRANCHED C14-15 ALCOHOLS ETHOXYLATED, REACTION PRODUCT WITH EPICHLOROHYDRIN	mixed linear and branched C1415 alcohols ethoxylated, reaction product with epichlorohydrin	158570-99-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Modified Polyethoxylated Alcohol	Modified Polyethoxylated Alcohol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MONOSACCHARIDE COMPLEX	ALOE BARBADENSIS LEAF POLYSACCHARIDES		The Cosmetic Ingredient Review restricts the anthraquinone content of this ingredient to less than 50 ppm. Additionally, the CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides, arsenic, heavy metals, and lead	
MONOSODIUM GLUTAMATE	MONOSODIUM GLUTAMATE	142-47-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MONTAN CERA	MONTAN WAX		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%.	
MONTAN WAX	MONTAN WAX	8002-53-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MONTMORILLONITE	CLAYS AND MINERALS	1318-93-0	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
MORINGA OLEIFERA SEED OIL	MORINGA PTERYGOSPERMA SEED OIL	93165-54-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
MOROCCAN LAVA CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
MORPHINAN-3,6-ALPHA-DIOL, 7,8-DIDEHYDRO-4,5-ALPHA-EPOXY-17-METHYL-	Morphine	57272	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MORPHINAN-3,6-ALPHA-DIOL, 7,8-DIDEHYDRO-4,5-ALPHA-EPOXY-17-METHYL-, DIACETATE (ESTER)	Diacetyl morphine	561273	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MORPHINAN-6-ALPHA-OL, 7,8-DIDEHYDRO-4,5-ALPHA-EPOXY-3-METHOXY-17-METHYL-	Codeine	76573	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MORPHINAN-6-ONE, 4,5-ALPHA-EPOXY-14-HYDROXY-3-METHOXY-17-METHYL-	Oxycodone	76-42-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MORPHINAN-6-ONE, 4,5-ALPHA-EPOXY-3-METHOXY-17-METHYL-	Hydrocodone	125291	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MORPHINAN, 6,7,8,14-TETRADEHYDRO-4,5-ALPHA-EPOXY-3,6-DIMETHOXY-17-METHYL-	Thebaine	115377	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
MUSK KETONE	Musk ketone	81141	The European Commission restricts this ingredient to a maximum concentration of 1.4% in fine fragrance, 0.56% in eau de toilette, and 0.042% in all other products.	
MUSK KETONE	Musk ketone	81141	The International Fragrance Association restricts the musk xylene content of the raw ingredient to less than 0.1%.	
MUSK XYLENE	Musk xylene	81152	The European Commission restricts this ingredient to a maximum concentration of 1.0% in fine fragrance, 0.4% in eau de toilette products, and 0.03% in all other products.	
MUSK XYLENE	MUSK XYLENE	81-15-2	Per COSING, the maximum concentration in ready to use preparation is (a) 1.0% in fine fragrance (b) 0.4% in eau de toilette (c) 0.03% in other products.	x
MUSTELA (mink/weasel oil)	MINK OIL	8023743	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: PCB/pesticides.	
MYRCIA OIL	PIMENTA ACRIS (BAY) LEAF OIL	8006788	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRCIA OIL	PIMENTA ACRIS (BAY) LEAF OIL	8006788	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MYRCIA OIL	PIMENTA ACRIS (BAY) LEAF OIL	8006788	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
MYRETH-10	MYRETH10	27306-79-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MYRETH-3	MYRETH3	26826-30-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MYRISTALKONIUM CHLORIDE	MYRISTALKONIUM CHLORIDE	139-08-2	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
MYRISTALKONIUM SACCHARINATE	MYRISTALKONIUM SACCHARINATE	68989-01-5	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
MYRISTAMIDE DEA	MYRISTAMIDE DEA MYRISTAMIDE DEA	7545235	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MYRISTAMIDE DEA	MYRISTAMIDE DEA	7545235	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MYRISTAMIDE DEA	MYRISTAMIDE DEA	7545-23-5	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
MYRISTAMIDE DEA MYRISTAMIDE DEA	MYRISTAMIDE DEA MYRISTAMIDE DEA	7545235	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
MYRISTAMIDE DEA MYRISTAMIDE DEA	MYRISTAMIDE DEA	7545235	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

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MYRISTAMIDE MIPA	MYRISTAMIDE MIPA	10525-14-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MYRISTAMIDOPROPYL BETAINE	MYRISTAMIDOPROPYL BETAINE	59272843	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
MYRISTAMIDOPROPYL DIMETHYLAMINE	Myristamidopropyl dimethylamine	45267194	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
MYRISTAMIDOPROPYL HYDROXSULTAINE	MYRISTAMIDOPROPYL HYDROXSULTAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MYRISTICA FRAGRANS (NUTMEG) KERNEL OIL	MYRISTICA FRAGRANS (NUTMEG) KERNEL OIL	8007123	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRISTICA FRAGRANS (NUTMEG) KERNEL OIL	MYRISTICA FRAGRANS (NUTMEG) KERNEL OIL	8007123	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRISTICA FRAGRANS (NUTMEG) KERNEL OIL	MYRISTICA FRAGRANS (NUTMEG) KERNEL OIL	8007123	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
MYRISTICA FRAGRANS (NUTMEG) SEED HULL	MYRISTICA FRAGRANS (NUTMEG) SEED HULL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRISTICA FRAGRANS (NUTMEG) SEED HULL	MYRISTICA FRAGRANS (NUTMEG) SEED HULL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRISTICA FRAGRANS (NUTMEG) SEED HULL	MYRISTICA FRAGRANS (NUTMEG) SEED HULL		Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MYRISTICA FRAGRANS KERNEL EXTRACT	MYRISTICA FRAGRANS KERNEL EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRISTICA FRAGRANS KERNEL EXTRACT	MYRISTICA FRAGRANS KERNEL EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRISTICA FRAGRANS KERNEL EXTRACT	MYRISTICA FRAGRANS KERNEL EXTRACT		Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
MYRISTOYL HEXAPEPTIDE-12	MYRISTOYL HEXAPEPTIDE-12		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
MYRISTOYL SARCOSINE	MYRISTOYL SARCOSINE	52558-73-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR restricts this ingredient to products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
MYRISTYL ALCOHOL	MYRISTYL ALCOHOL	112721	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
MYRISTYL BETAINE	MYRISTYL BETAINE	2601-33-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.84%.	
MYRISTYL BETAINE	MYRISTYL BETAINE	2601-33-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
MYRISTYL LACTATE	MYRISTYL LACTATE	1323-03-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
MYRISTYL MYRISTATE	MYRISTYL MYRISTATE	3234-85-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 17%.	
MYRISTYL SALICYLATE	MYRISTYL SALICYLATE	19666-17-2	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
MYRISTYL STEARATE	MYRISTYL STEARATE	17661-50-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
MYRISTYLAMIDOPROPYL DIMETHYLAMINE DIMETHICONE PEG-7 PHOSPHATE	Myristylamidopropyl Dimethylamine Dimethicone Peg7 Phosphate	137145369	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
MYROXYLON PEREIRAE (BALSAM PERU) OIL	MYROXYLON PEREIRAE (BALSAM PERU) OIL	8007009	The European Commission restricts this ingredient to a maximum concentration of 0.40%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MYROXYLON PEREIRAE RESIN	Peru balsam extracts and distillates	8007009	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.4% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.2% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.7% in mouthwashes, breath sprays, and toothpastes, 0.07% in intimate wipes, and baby wipes, 0.4% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.4% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
MYROXYLON PEREIRAE RESIN	Peru balsam	8007009	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.073% Category 2) 0.022% Category 3) 0.44% Category 4) 0.41% Category 5A) 0.10% Category 5B) 0.10% Category 5C) 0.10% Category 5D) 0.034% Category 6) 0.24% Category 7A) 0.83% Category 7B) 0.83% Category 8) 0.034% Category 9) 0.80% Category 10A) 0.80% Category 10B) 2.9% Category 11A) 0.034% Category 11B) 0.034% Category 12) No Restriction	
MYRTUS COMMUNIS	MYRTUS COMMUNIS	84082677	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRTUS COMMUNIS	MYRTUS COMMUNIS	84082677	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRTUS COMMUNIS	MYRTUS COMMUNIS	84082677	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
MYRTUS COMMUNIS (COMMON MYRTLE) LEAF HYDROSOL	MYRTUS COMMUNIS (COMMON MYRTLE) LEAF HYDROSOL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MYRTUS COMMUNIS (COMMON MYRTLE) LEAF HYDROSOL	MYRTUS COMMUNIS (COMMON MYRTLE) LEAF HYDROSOL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRTUS COMMUNIS (COMMON MYRTLE) LEAF HYDROSOL	MYRTUS COMMUNIS (COMMON MYRTLE) LEAF HYDROSOL		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
MYRTUS COMMUNIS (GREEN MYRTLE) LEAF OIL	MYRTUS COMMUNIS (GREEN MYRTLE) LEAF OIL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRTUS COMMUNIS (GREEN MYRTLE) LEAF OIL	MYRTUS COMMUNIS (GREEN MYRTLE) LEAF OIL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRTUS COMMUNIS (GREEN MYRTLE) LEAF OIL	MYRTUS COMMUNIS (GREEN MYRTLE) LEAF OIL		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
MYRTUS COMMUNIS (MYRTLE) INFUSION	MYRTUS COMMUNIS (MYRTLE) INFUSION		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MYRTUS COMMUNIS (MYRTLE) INFUSION	MYRTUS COMMUNIS (MYRTLE) INFUSION		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRTUS COMMUNIS (MYRTLE) INFUSION	MYRTUS COMMUNIS (MYRTLE) INFUSION		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
MYRTUS COMMUNIS (MYRTLE) OIL	MYRTUS COMMUNIS (MYRTLE) OIL	8008466	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRTUS COMMUNIS (MYRTLE) OIL	MYRTUS COMMUNIS (MYRTLE) OIL	8008466	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRTUS COMMUNIS (MYRTLE) OIL	MYRTUS COMMUNIS (MYRTLE) OIL	8008466	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
MYRTUS COMMUNIS LEAF EXTRACT	MYRTUS COMMUNIS LEAF EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
MYRTUS COMMUNIS LEAF EXTRACT	MYRTUS COMMUNIS LEAF EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRTUS COMMUNIS LEAF EXTRACT	MYRTUS COMMUNIS LEAF EXTRACT		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
MYRTUS COMMUNIS LEAF WATER	MYRTUS COMMUNIS LEAF WATER		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
MYRTUS COMMUNIS LEAF WATER	MYRTUS COMMUNIS LEAF WATER		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
MYRTUS COMMUNIS LEAF WATER	MYRTUS COMMUNIS LEAF WATER		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
N-(3-HEXADECYLOXY-2-HYDROXYPROP-1-YL)-N-(2-HYDROXYETHYL)PALMITAMIDE	CETYL PG HYDROXYETHYL PALMITAMIDE	110483073	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
N-(3-HEXADECYLOXY-2-HYDROXYPROP-1-YL)-N-(2-HYDROXYETHYL)PALMITAMIDE	N(3hexadecyloxy2hydroxypropyl)N(2hydroxyethyl)palmitamide	110483073	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
N-LAURYL DIETHANOLAMINE	NLAURYL DIETHANOLAMINE	1541679	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
n-octyl-polyoxyethylene	nOctylpolyoxyethylene	27252-75-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
N-PHENYL-P-PHENYLENEDIAMINE	NPHENYLPPHENYLENEDIAMINE	101542	The European Commission restricts this ingredient to a maximum concentration of 3% (calculated as free base) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following on the product label/package on general use hair dye: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Do not use to dye eyelashes or eyebrows'. For professionally use hair dye, the European Commission requires the following on the product label/package: The mixing ratio; 'For professionally use only'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Wear suitable gloves.'	
N-PHENYL-P-PHENYLENEDIAMINE	NPHENYLPPHENYLENEDIAMINE	101-54-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1.7% as a free base.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
N-PHENYL-P-PHENYLENEDIAMINE HCL	NPHENYLPPHENYLENEDIAMINE HCL	2198596	The European Commission restricts this ingredient to a maximum concentration of 3% (calculated as free base) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following on the product label/package on general use hair dye: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Do not use to dye eyelashes or eyebrows'. For professionally use hair dye, the European Commission requires the following on the product label/package: The mixing ratio; 'For professionally use only'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Wear suitable gloves.'	
N-PHENYL-P-PHENYLENEDIAMINE HCL	NPHENYLPPHENYLENEDIAMINE HCL	2198-59-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1.7% as a free base.	
N-PHENYL-P-PHENYLENEDIAMINE SULFATE	NPHENYLPPHENYLENEDIAMINE SULFATE NPHENYLPPHENYLENEDIAMINE SULFATE	4698297	The European Commission restricts this ingredient to a maximum concentration of 3% (calculated as free base) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following on the product label/package on general use hair dye: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Do not use to dye eyelashes or eyebrows'. For professionally use hair dye, the European Commission requires the following on the product label/package: The mixing ratio; 'For professionally use only'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Wear suitable gloves.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
N-PHENYL-P-PHENYLENEDIAMINE SULFATE	NPHENYLPPHENYLENEDIAMINE SULFATE	4698297	The European Commission restricts this ingredient to a maximum concentration of 3% (calculated as free base) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following on the product label/package on general use hair dye: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Do not use to dye eyelashes or eyebrows'. For professionally use hair dye, the European Commission requires the following on the product label/package: The mixing ratio; 'For professionally use only'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Wear suitable gloves.'	
N-PHENYL-P-PHENYLENEDIAMINE SULFATE	NPHENYLPPHENYLENEDIAMINE SULFATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1.7% as a free base.	
N-PHENYL-P-PHENYLENEDIAMINE SULFATE N-PHENYL-P-PHENYLENEDIAMINE SULFATE	NPHENYLPPHENYLENEDIAMINE SULFATE NPHENYLPPHENYLENEDIAMINE SULFATE	4698297	The European Commission restricts this ingredient to a maximum concentration of 3% (calculated as free base) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following on the product label/package on general use hair dye: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Do not use to dye eyelashes or eyebrows'. For professionally use hair dye, the European Commission requires the following on the product label/package: The mixing ratio; 'For professionally use only'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Wear suitable gloves.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
N-PHENYL-P-PHENYLENEDIAMINE SULFATE N-PHENYL-P-PHENYLENEDIAMINE SULFATE	NPHENYLPPHENYLENEDIAMINE SULFATE	4698297	The European Commission restricts this ingredient to a maximum concentration of 3% (calculated as free base) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following on the product label/package on general use hair dye: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Do not use to dye eyelashes or eyebrows'. For professionally use hair dye, the European Commission requires the following on the product label/package: The mixing ratio; 'For professionally use only'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Wear suitable gloves.'	
N-PROLYL PALMITOYL TRIPEPTIDE-56 ACETATE	nprolyl palmitoyl tripeptide56 acetate	1899049-18-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.002%	
N,N-BIS(2-HYDROXYETHYL)-P-PHENYLENEDIAMINE SULFATE	N,NBIS(2HYDROXYETHYL)PPHENYLENEDIAMINE SULFATE	58262445	The European Commission restricts this ingredient to a maximum concentration of 2.5% (calculated as sulphate) applied to hair after mixing under oxidative conditions in oxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, and it cannot have a nitrosamine content of more than 50 microgram/kg. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
N,N-BIS(2-HYDROXYETHYL)-P-PHENYLENEDIAMINE SULFATE	ETHANOL, 2,2'((4AMINOPHENYL)IMINO)BIS, SULFATE (SALT), HYDRATE (1:1:1)	54381167	The European Commission restricts this ingredient to a maximum concentration of 2.5% (calculated as sulphate) applied to hair after mixing under oxidative conditions in oxidative hair dye products. Additionally, this substance cannot be used with nitrosating agents, and it cannot have a nitrosamine content of more than 50 microgram/kg. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
N,N-BIS(2-HYDROXYETHYL)-P-PHENYLENEDIAMINE SULFATE	N,NBIS(2HYDROXYETHYL)PPHENYLENEDIAMINE SULFATE	63886759	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
nameALUMINUM ZIRCONIUM	ALUMINUMZIRCONIUM		Health Canada restricts this ingredient to a maximum concentration of 20% (calculated as the anhydrous form). Additionally, it cannot be used in aerosol dispensers and be combined with aluminum chloride, aluminum chlorohydrate or its associated complexes or other aluminum zirconium complexes. Required Warning: Health Canada requires the following warning text on the label/package of deodorant and antiperspirant cosmetics: 'Discontinue use if rash or irritation occurs'; 'Do not use on broken skin'.	
nameALUMINUM ZIRCONIUM	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
NAPHTHA (PETROLEUM, FULL-RANGE REFORMED)	NAPHTHA (PETROLEUM, FULLRANGE REFORMED)	68919379	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), CATALYTIC REFORMED	Naphtha (petroleum), catalytic reformed	68955351	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), FULL-RANGE STRAIGHT-RUN	Naphtha (petroleum), fullrange straightrun	64741420	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), HEAVY CATALYTIC CRACKED	Naphtha (petroleum), heavy catalytic cracked	64741544	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), HEAVY CATALYTIC REFORMED	Naphtha (petroleum), heavy catalytic reformed	64741680	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), LIGHT ALKYLATE	Naphtha (petroleum), light alkylate	64741668	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), LIGHT CATALYTIC CRACKED	Naphtha (petroleum), light catalytic cracked	64741555	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), LIGHT CATALYTIC REFORMED	Naphtha (petroleum), light catalytic reformed	64741635	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), LIGHT STRAIGHT-RUN	Naphtha (petroleum), light straightrun	64741464	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), SWEETENED	Naphtha (petroleum), sweetened	64741873	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA (PETROLEUM), THERMAL CRACKED	NAPHTHA (PETROLEUM), THERMAL CRACKED	64741839	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHA, (PETROLEUM), HEAVY, SOLVENT-REFINED	NAPHTHA, (PETROLEUM), HEAVY, SOLVENTREFINED	64741920	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
Naphtha, petroleum, heavy alkylate	Naphtha, petroleum, heavy alkylate	64741657	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NAPHTHENIC ACIDS, ALUMINUM SALT	Aluminum Compounds	61789-64-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NATURAL GAS CONDENSATES	Natural gas condensates	68919391	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NATURAL GAS CONDENSATES (PETROLEUM)	Natural gas condensates (petroleum)	64741475	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
NEOCHROMIUM	Chromium Compounds	64093-79-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NEOPENTYL GLYCOL DICAPRATE	NEOPENTYL GLYCOL DICAPRATE	27841-06-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NEOPENTYL GLYCOL DICAPRYLATE/ DICAPRATE	NEOPENTYL GLYCOL DICAPRYLATE/ DICAPRATE	70693-32-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NEOPENTYL GLYCOL DICAPRYLATE/DIPELARGONATE/DICAPRATE	NEOPENTYL GLYCOL DICAPRYLATE/DIPELARGONATE/DICAPRATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NEOPENTYL GLYCOL DIETHYLHEXANOATE	NEOPENTYL GLYCOL DIETHYLHEXANOATE	28510-23-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NEOPENTYL GLYCOL DIHEPTANOATE	NEOPENTYL GLYCOL DIHEPTANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NEOPENTYL GLYCOL DIISOSTEARATE	NEOPENTYL GLYCOL DIISOSTEARATE	109884-54-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NEOPENTYL GLYCOL DILAURATE	NEOPENTYL GLYCOL DILAURATE	10525-39-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
NERAL	citral	106263	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.04% in lip products, 0.05% in deodorants/antiperspirants, 0.2% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.6% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.3% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 1.4% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
NERAL	citral	106263	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.11 % Category 2) 0.032 % Category 3) 0.10 % Category 4) 0.60 % Category 5A) 0.15 % Category 5B) 0.15 % Category 5C) 0.15 % Category 5D) 0.051 % Category 6) 0.35 % Category 7A) 0.20 % Category 7B) 0.20 % Category 8) 0.051 % Category 9) 1.2 % Category 10A) 1.2 % Category 10B) 4.2 % Category 11A) 0.051 % Category 11B) 0.051 % Category 12) No Restriction	
NEREOCYCSTIS LEUTKEANA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
NIACIN	NIACIN	59676	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
NIACINAMIDE	NIACINAMIDE	98920	Based on a clinical study, niacinamide may be used up to 5% in a cosmetics product.	
NICKEL	nickel	7440020	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
NICKEL	Nickel Compounds	7440-02-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL	nickel	7440020	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL (II) SULFAMATE	Nickel Compounds	13770-89-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ACETATE TETRAHYDRATE	Nickel Compounds	6018-89-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ACETYLMETHIONATE	Nickel Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ALLOY, BASE, NI 57-62, FE 22-28, CR 14-18, SI 0.8-1.6, MN 0-1, C 0-0.2	Nickel Compounds	12605-70-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ALLOY, BASE, NI 63-70, CU 25-37, FE 0-2.5, MN 0-2, SI 0-0.5, C 0-0.3	Nickel Compounds	11105-19-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ALLOY, NI 47-59, CO 17-20, CR 13-17, MO 4.5-5.7, AL 3.7-4.7, TI 3-4, FE 0-1, C 0-0.1 (AISI)	Nickel Compounds	11068-91-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
NICKEL ALLOY, NI,BE	Nickel Compounds	37227-61-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ANTIMONIDE	Nickel Compounds	12035-52-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ARSENIDE	Nickel Compounds	27016-75-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ARSENIDE (AS2-NI5)	Nickel Compounds	12255-80-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ARSENIDE (AS8-NI11)	Nickel Compounds	12256-33-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL ARSENIDE SULFIDE	Nickel Compounds	12255-10-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL CARBONATE	Nickel Compounds	3333-67-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL CHLORIDE, TRIHYDRATE	Nickel Compounds	65374-81-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL CYANIDE	Nickel Compounds	557-19-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL DIOXIDE	Nickel Compounds	12035-36-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL GLUCONATE	Nickel Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL HYDROXIDE	Nickel Compounds	11113-74-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL IRON SULFIDE	Nickel Compounds	59978-65-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
nickel isooctanoate	Nickel Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL MONOXIDE	Nickel Compounds	1313-99-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL POTASSIUM CYANIDE	Nickel Compounds	14220-17-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL SELENIDE (NI-SE)	Nickel Compounds	1314-05-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL SELENIDE (NI3-SE2)	Nickel Compounds	12137-13-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL SUBSULPHIDE	Nickel Compounds	12035-72-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL SULFIDE (NI7S6)	Nickel Compounds	12503-53-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL SULPHATE	Nickel Compounds	7786-81-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL SULPHIDE	Nickel Compounds	16812-54-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL TELLURIDE	Nickel Compounds	12142-88-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL TITANIUM OXIDE	Nickel Compounds	12035-39-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
NICKEL-GALLIUM ALLOY	Nickel Compounds	56668-59-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, ((3-AMINO-3-CARBOXYPROPYL)DIMETHYLSULFONIUMATO-N,O)DIAQUA(2-OXOPENTANEDIOATO(2-)-	Nickel Compounds	132428-46-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, (4-AMINOBUTANOATO-N,O)(N-(2,4-DIHYDROXY-3,3-DIMETHYL-1-OXOBUTYL)-BETA-ALANINATO)-	Nickel Compounds	85625-89-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, (BENZENECARBOTHIOIC ACID ((2-HYDROXYPHENYL)METHYLENE)HYDRAZIDATO(2-))(PYRIDINE)-,(SP-	Nickel Compounds	132829-28-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, (CARBONATO(2-))TETRAHYDROXYTRI-	Nickel Compounds	12607-70-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, (CARBONATO(2-))TETRAHYDROXYTRI-, TETRAHYDRATE	Nickel Compounds	39430-27-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, (ETHANEDIOATO(2-)-O,O')BIS(3-((PHENYLAMINO)METHYL)-2(3H)-BENZOXAZOLONE-N(SUP N(SUP 3),	Nickel Compounds	82497-99-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, (ETHANEDIOATO(2-)-O,O')BIS(3-METHYLBENZENAMINE)-	Nickel Compounds	80660-65-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, (ETHANEDIOATO(2-)-O,O')BIS(PYRIDINE 1-OXIDE-O)-, (SP-4-2)-	Nickel Compounds	74167-24-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, AMMINE(BENZENECARBOTHIOIC ACID ((2-HYDROXYPHENYL)METHYLENE)HYDRAZIDATO(2-))-	Nickel Compounds	132773-08-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, AMMINE(BENZENECARBOTHIOIC ACID (1-METHYL-3-OXO-3-PHENYLPROPYLIDENE)HYDRAZIDATO(2-))-	Nickel Compounds	132829-31-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, AMMINE(BENZENECARBOTHIOIC ACID (1-METHYL-3-OXOBUTYLIDENE)HYDRAZIDATO(2-))-,(SP-4-2)-	Nickel Compounds	132829-29-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, AMMINE(BENZENECARBOTHIOIC ACID (3-OXO-3-PHENYLPROPYLIDENE)HYDRAZIDATO(2-))-	Nickel Compounds	132829-30-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, BIS(1,5-CYCLOOCTADIENE)-	Nickel Compounds	1295-35-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, BIS(2-BENZOYLBENZOATO)BIS(3-(1-METHYL-2-PYRROLIDINYL)PYRIDINE)-, TRIHYDRATE	Nickel Compounds	64092-23-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, BIS(3-((PHENYLAMINO)METHYL)-2(3H)-BENZOXAZOLONE-N(SUP N(SUP 3),O(SUP 2))	Nickel Compounds	82498-00-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, BIS(3,4-DICHLOROENZOATO)-	Nickel Compounds	15442-77-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, BIS(CARBONATO(2-))HEXAHYDROXY PENTA-	Nickel Compounds	12122-15-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, BIS(DIBUTYLDITHIOCARBAMATO)-	Nickel Compounds	13927-77-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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NICKEL, BIS(DIMETHYLDITHIOCARBAMATO)-	Nickel Compounds	15521-65-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, BIS(TRIPHENYLPHOSPHINE)DICHLORO-	Nickel Compounds	14264-16-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, COMPD WITH PI-CYCLOPENTADIENYL (1:2)	Nickel Compounds	1271-28-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, DICHLOROBIS(2,3,5,6-TETRAHYDRO-6-PHENYLIMIDAZO(2,1-B)THIAZOLE-N(SUP 7)-,(T-4-(S),(S))-	Nickel Compounds	155737-57-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL, DITHIOCYANATOBIS(TRIPHENYLPHOSPHINE)-	Nickel Compounds	15709-62-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(2+), BIS(1,2-ETHANEDIAMINE-N,N')-, (T-4)-TETRAKIS(THIOCYANATO-S)MERCURATE(2-) (1:1),	Nickel Compounds	80732-90-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(2+), BIS(N-(2-AMINOETHYL)-1,2-ETHANEDIAMINE-N,N',N'')-, (T-4)-TETRAOXOTUNGSTATE(2-)	Nickel Compounds	80683-33-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(2+), BIS(N,N'-BIS(2-AMINOETHYL)-1,2-ETHANEDIAMINE-N,N',N(SUP N))-,(T-4)-	Nickel Compounds	80660-68-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(2+), TRIS(1,2-ETHANEDIAMINE-N,N')-, (OC-6-11)-, (T-4)-TETRAOXOTUNGSTATE(2-) (1:1)	Nickel Compounds	80660-45-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(2+), TRIS(1,2-PROPANEDIAMINE-N,N')-, (T-4)-TETRAOXOTUNGSTATE(2-) (1:1)	Nickel Compounds	80660-44-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(2+), TRIS(2,2'-BIPYRIDINE-N,N')-, DICHLORIDE, (OC-6-11)-	Nickel Compounds	14751-84-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(2+), TRIS(OCTAMETHYLPYROPHOSPHORAMIDE)-, DIPERCHLORATE	Nickel Compounds	26388-85-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) ACETATE (1:2)	Nickel Compounds	373-02-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) CHLORIDE (1:2)	Nickel Compounds	7718-54-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) CHLORIDE, HEXAHYDRATE (1:2:6)	Nickel Compounds	7791-20-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) FLUOBORATE	Nickel Compounds	14708-14-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) FLUORIDE (1:2)	Nickel Compounds	10028-18-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) FLUOSILICATE (1:1)	Nickel Compounds	26043-11-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) FLUOSILICATE (1:1)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
NICKEL(II) HYDROXIDE	Nickel Compounds	12054-48-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) ISODECYL ORTHOPHOSPHATE (3:2)	Nickel Compounds	74203-45-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

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NICKEL(II) NITRATE (1:2)	Nickel Compounds	13138-45-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) NITRATE, HEXAHYDRATE (1:2:6)	Nickel Compounds	13478-00-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(II) SULFATE HEXAHYDRATE (1:1:6)	Nickel Compounds	10101-97-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(III) HYDROXIDE	Nickel Compounds	12125-56-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKEL(IV) SULFIDE	Nickel Compounds	12035-51-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKELATE(2-), ((ETHYLENEDINITRILO)TETRAACE TATO)-, DISODIUM	Nickel Compounds	15708-55-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKELATE(2-), TETRACYANO-, DIPOTASSIUM, HYDRATE	Nickel Compounds	14323-41-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKELATE(4-), ((4,4',4'',4'''-(21H,23H-PORPHINE-5,10,15,20-TETRAYL)TETRAKIS(BENZENESULFONATO)	Nickel Compounds	67204-04-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICKELINE	Nickel Compounds	1303-13-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NICOMETHANOL HYDROFLUORIDE	NICOMETHANOL HYDROFLUORIDE	62756449	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains nicomethanol hydrofluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
NITROCELLULOSE	NITROCELLULOSE	9004-70-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NITROGEN CHLORIDE	Trichloramine	10025851	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NITROMETHANE	nitromethane	75525	The European Commission restricts this ingredient to a maximum concentration of 0.3% as a rust inhibitor.	
NITROUS ACID, ISOPROPYL ESTER	NITROUS ACID, ISOPROPYL ESTER	541-42-4	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
NITROUS ACID, NICKEL (2+) SALT	Nickel Compounds	17861-62-0	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
NONANOIC ACID, 1,2,3-PROPANETRIYL ESTER	NONANOIC ACID, 1,2,3-PROPANETRIYL ESTER	126-53-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NONOXYNOL	NONOXYNOL	26027-38-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
NONOXYNOL	Poly (oxy1,2Ethanedyl), Alpha(4Nonylphenyl)OmegaHydroxy	26027-38-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-1	NONOXYNOL1	27986-36-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-10	NONOXYNOL10	37205-87-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-10 CARBOXYLIC ACID	Nonoxynol10 Carboxylic Acid	28212-44-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-10 PHOSPHATE	Nonoxynol10 Phosphate	51609-41-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-100	Nonoxynol100	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-100	NONOXYNOL-100	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-11	Nonoxynol11	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-11	NONOXYNOL-11	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-12	NONOXYNOL12	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-12	Nonylphenol Ethoxylate	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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NONOXYNOL-120	Nonoxynol120	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-120	NONOXYNOL-120	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-13	Nonoxynol13	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-13	NONOXYNOL-13	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-14	NONOXYNOL14	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-15	NONOXYNOL15	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-18	Nonoxynol18	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-18	NONOXYNOL-18	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-2	NONOXYNOL2	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-20	Nonoxynol20	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-20	NONOXYNOL-20	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-23	Nonoxynol23	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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NONOXYNOL-23	NONOXYNOL-23	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-25	Nonoxynol25	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-25	NONOXYNOL-25	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-3	NONOXYNOL3	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-3 PHOSPHATE	Nonoxynol3 Phosphate	51811-79-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-30	NONOXYNOL30	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-35	Nonoxynol35	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-35	NONOXYNOL-35	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-4	NONOXYNOL4	7311-27-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-4 PHOSPHATE	Nonoxynol4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-40	NONOXYNOL40	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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NONOXYNOL-44	Nonoxynol44	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-44	NONOXYNOL-44	9016-45-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
NONOXYNOL-5	NONOXYNOL5	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-5 CARBOXYLIC ACID	Nonoxynol5 Carboxylic Acid	28212-44-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-50	NONOXYNOL50	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-6	NONOXYNOL6	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-6 PHOSPHATE	Nonoxynol6 Phosphate	29994-44-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-7	NONOXYNOL7	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-8	NONOXYNOL8	9016-45-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-8 CARBOXYLIC ACID	Nonoxynol8 Carboxylic Acid	28212-44-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONOXYNOL-9	NONOXYNOL9	26571-11-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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NONOXYNOL-9 PHOSPHATE	Nonoxynol9 Phosphate	51609-41-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL ACETATE	NONYL ACETATE	143-13-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.0004%.	
NONYL NONOXYNOL 7	Nonyl Nonoxynol 7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-10	Nonyl Nonoxynol10	9014-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-10 PHOSPHATE	Nonyl Nonoxynol10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-100	Nonyl Nonoxynol100	9014-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-11 PHOSPHATE	Nonyl Nonoxynol11 Phosphate	39464-64-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-15 PHOSPHATE	Nonyl Nonoxynol15 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-150	Nonyl Nonoxynol150	9014-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-24 PHOSPHATE	Nonyl Nonoxynol24 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-30	Nonyl Nonoxynol30	9014-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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NONYL NONOXYNOL-49	Nonyl Nonoxynol49	9014-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-5	Nonyl Nonoxynol5	9014-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-7 PHOSPHATE	Nonyl Nonoxynol7 Phosphate	66172-78-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-8 PHOSPHATE	Nonyl Nonoxynol8 Phosphate	39464-64-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NONYL NONOXYNOL-9 PHOSPHATE	Nonyl Nonoxynol9 Phosphate	66172-82-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
NOOTKATONE	NOOTKATONE	4674504	The International Fragrance Association requires that the raw ingredient be at least 98% pure with a melting point of at least 32°C.	
NUTMEG EXTRACT	NUTMEG EXTRACT	84082688	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
NUTMEG EXTRACT	NUTMEG EXTRACT	84082688	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
NYLON 6/12	NYLON 6/12		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NYLON-12/6/66 COPOLYMER	NYLON-12/6/66 COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
NYLON-611/ DIMETHICONE COPOLYMER	NYLON-611/ DIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
O-AMINOPHENOL	OAMINOPHENOL	95556	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
O-CRESOL	oCresol	95487	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
O-CYMEN-5-OL	OCYMEN5OL	3228-02-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
O-CYMEN-5-OL	Isopropylmethylphenol	3228-02-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in products meant to be applied to the mucosa.	
O-CYMEN-5-OL	Isopropylmethylphenol	3228-02-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in leaveon products (not applied to mucosa).	
O-CYMEN-5-OL	4Isopropylmresol	3228-02-2	(*) The European Commission restricts this ingredient to a maximum concentration of 0.10%	
o-METHOXYCINNAMALDEHYDE	OMETHOXYCINNAMALDEHYDE	1504741	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.72% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
o-METHOXYCINNAMALDEHYDE	OMETHOXYCINNAMALDEHYDE	1504741	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077 % Category 2) 0.023 % Category 3) 0.46 % Category 4) 0.43 % Category 5A) 0.11 % Category 5B) 0.11 % Category 5C) 0.11 % Category 5D) 0.11 % Category 6) 0.25 % Category 7A) 0.88 % Category 7B) 0.88 % Category 8) 0.045 % Category 9) 0.84 % Category 10A) 3.0 % Category 10B) 3.0 % Category 11A) 1.7 % Category 11B) 1.7 % Category 12) No Restriction	
o-TOLUALDEHYDE	o,m,pTolualdehydes and their mixtures	529204	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.17% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.26% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.11% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
o-TOLUALDEHYDE	o,m,pTolualdehydes and their mixtures	529204	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.085 % Category 2) 0.025 % Category 3) 0.51 % Category 4) 0.47 % Category 5A) 0.12 % Category 5B) 0.12 % Category 5C) 0.12 % Category 5D) 0.12 % Category 6) 0.28 % Category 7A) 0.96 % Category 7B) 0.96 % Category 8) 0.050 % Category 9) 0.92 % Category 10A) 3.3 % Category 10B) 3.3 % Category 11A) 1.8 % Category 11B) 1.8 % Category 12) No Restriction	
OAKMOSS CONCRETE	Oakmoss Extracts	68917102	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.5% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 0.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
OAKMOSS CONCRETE	Oak moss extracts	68917102	According to the International Fragrance Association, this ingredient must not contain added tree moss. Additionally, dehydroabiatic acid (DHA) must not exceed 0.1% in the extract, and the levels of atranol and chloroatranol should each be below 100ppm.	
OAKMOSS CONCRETE	Oakmoss Extracts	68917102	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020% Category 2) 0.016% Category 3) 0.10% Category 4) 0.10% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.076% Category 6) 0.18% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.032% Category 9) 0.10% Category 10A) 0.10% Category 10B) 0.10% Category 11A) 0.10% Category 11B) 0.10% Category 12) No Restriction	
OAT AMINO ACIDS	OAT AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OATAMIDE MEA	OATAMIDE MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
OATAMIDOPROPYL BETAINE	oatamidopropyl betaine		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
OATAMIDOPROPYL DIMETHYLAMINE	Oatamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
OATMEAL HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OATMEAL HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
OATMEAL HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
OCIMUM BASILICUM (SWEET BASIL)	OCIMUM BASILICUM		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
OCIMUM BASILICUM (SWEET BASIL)	OCIMUM BASILICUM		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
OCIMUM BASILICUM (SWEET BASIL)	OCIMUM BASILICUM		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
OCIMUM BASILICUM (SWEET BASIL) EXTRACT	OCIMUM BASILICUM (SWEET BASIL) EXTRACT	84775713	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
OCIMUM BASILICUM (SWEET BASIL) EXTRACT	OCIMUM BASILICUM (SWEET BASIL) EXTRACT	84775713	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OCIMUM BASILICUM (SWEET BASIL) EXTRACT	OCIMUM BASILICUM (SWEET BASIL) EXTRACT	84775713	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
OCIMUM BASILICUM (SWEET BASIL) HYDROSOL	OCIMUM BASILICUM (SWEET BASIL) HYDROSOL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
OCIMUM BASILICUM (SWEET BASIL) HYDROSOL	OCIMUM BASILICUM (SWEET BASIL) HYDROSOL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
OCIMUM BASILICUM (SWEET BASIL) HYDROSOL	OCIMUM BASILICUM (SWEET BASIL) HYDROSOL		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
OCIMUM BASILICUM (SWEET BASIL) OIL	OCIMUM BASILICUM (SWEET BASIL) OIL	8015734	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
OCIMUM BASILICUM (SWEET BASIL) OIL	OCIMUM BASILICUM (SWEET BASIL) OIL	8015734	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OCIMUM BASILICUM (SWEET BASIL) OIL	OCIMUM BASILICUM (SWEET BASIL) OIL	8015734	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
OCIMUM BASILICUM LEAF	OCIMUM BASILICUM LEAF		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
OCIMUM BASILICUM LEAF	OCIMUM BASILICUM LEAF		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
OCIMUM BASILICUM LEAF	OCIMUM BASILICUM LEAF		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
OCOTEA CYMBARUM OIL	OCOTEA CYMBARUM OIL	68917099	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
OCTADECENYL-AMMONIUM FLUORIDE	OCTADECENYLAMMONIUM FLUORIDE	2782812	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains octadecenylammonium fluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
OCTANOHYDROXAMIC ACID	OCTANOHYDROXAMIC ACID	7377-03-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OCTINOXATE	2ETHYLHEXYLPMETHOXYCINNAMATE	5466-77-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 20% in rinseoff products (not applied to mucosa).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OCTINOXATE	2ETHYLHEXYLPMETHOXYCINNAMATE	5466-77-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 8% in products meant to be applied to the mucosa.	
OCTINOXATE	2ETHYLHEXYLPMETHOXYCINNAMATE	5466-77-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 20% in leaveon products (not applied to mucosa).	
OCTISALATE	ETHYLHEXYL SALICYLATE	118-60-5	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
OCTISALATE	OCTYLSALICYLATE	118-60-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
OCTISALATE	OCTYLSALICYLATE	118-60-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in products meant to be applied to the mucosa.	
OCTISALATE	OCTYLSALICYLATE	118-60-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
OCTOCRYLENE	2CYANO33DIPHENYLPROP2ENOIC ACID2ETHYLHEXYLESTEROCTOCRYLENE	6197-30-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10%.	
OCTOCRYLENE	OCTOCRYLENE	6197-30-4	Per COSING, the maximum concentration in RTU preparation is a) 0.9% in propellant spray products b) 10% in other products. Benzophenone as an impurity and/or degradation product of Octocrylene shall be kept at trace level.	x
OCTOXYNOL 12 PHOSPHATE	Octoxynol 12 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTOXYNOL 12 PHOSPHATE	Octoxynol12 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTOXYNOL-1	OCTOXYNOL1	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-10	OCTOXYNOL10	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25% in hair bleaches. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-11	OCTOXYNOL11	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-12	OCTOXYNOL12	9002931	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-13	OCTOXYNOL13	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	

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OCTOXYNOL-16	OCTOXYNOL16	9002931	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-20	OCTOXYNOL20	9002931	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-20 CARBOXYLIC ACID	OCTOXYNOL20 CARBOXYLIC ACID		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-25	OCTOXYNOL25	9002931	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-3	OCTOXYNOL3	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-30	OCTOXYNOL30	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-33	OCTOXYNOL33	9002931	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-40	OCTOXYNOL40	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.02%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-5	OCTOXYNOL5	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-6	OCTOXYNOL6	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-7	OCTOXYNOL7	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-70	OCTOXYNOL70	9002931	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-8	OCTOXYNOL8	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-9	OCTOXYNOL9	9002931	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTOXYNOL-9 CARBOXYLIC ACID	OCTOXYNOL9 CARBOXYLIC ACID	25338-58-3	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
OCTYL PELARGONATE	ETHYLHEXYL PELARGONATE	59587-44-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	

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OCTYLDECYL PHOSPHATE	OCTYLDECYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OCTYLDODECANOL	OCTYLDODECANOL	5333-42-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OCTYLDODECETH-10	OCTYLDODECETH10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTYLDODECETH-16	OCTYLDODECETH16		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTYLDODECETH-2	OCTYLDODECETH2	32128657	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTYLDODECETH-20	OCTYLDODECETH20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTYLDODECETH-25	OCTYLDODECETH25		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTYLDODECETH-30	OCTYLDODECETH30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTYLDODECETH-5	OCTYLDODECETH5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OCTYLDODECYL BEESWAX	OCTYLDODECYL BEESWAX		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OCTYLDODECYL BEHENATE	OCTYLDODECYL BEHENATE	125804-08-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OCTYLDODECYL BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
OCTYLDODECYL BENZOATE	OCTYLDODECYL BENZOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OCTYLDODECYL MYRISTATE	Octyldodecyl Myristate	22766-83-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 21%.	

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OCTYLDODECYL RICINOLEATE	OCTYLDODECYL RICINOLEATE	79490-62-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
OCTYLDODECYL STEAROYL STEARATE	OCTYLDODECYL STEAROYL STEARATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
Octylphenol ethoxylate	Octylphenol Ethoxylate	9036-19-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OIL BLEND - EWG REVIEWED #295280	BISABOLOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
OIL BLEND - EWG REVIEWED #295286	BISABOLOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
OIL BLEND - EWG REVIEWED #295290	BISABOLOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
OIL BLEND - EWG REVIEWED #295320	BISABOLOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
OIL BLEND - EWG REVIEWED #295323	BISABOLOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
OIL BLEND - EWG REVIEWED #295342	BISABOLOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
OIL OF CALAMUS	OIL OF CALAMUS	8015790	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
OIL OF CALAMUS	OIL OF CALAMUS	8015790	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
Oils, treemoss, resinoid	Treemoss Extracts	68917408	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.5% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 0.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Oils, treemoss, resinoid	Treemoss Extracts	68917408	The International Fragrance Association restricts the dehydroabietic acid (DHA) concentration of this ingredient to a maximum of 0.8% in the extract, and the levels of atranol and chloroatranol should each be below 100ppm.	
Oils, treemoss, resinoid	Treemoss Extracts	68917408	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020% Category 2) 0.016% Category 3) 0.10% Category 4) 0.10% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.076% Category 6) 0.18% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.032% Category 9) 0.10% Category 10A) 0.10% Category 10B) 0.10% Category 11A) 0.10% Category 11B) 0.10% Category 12) No Restriction	
Oils, vetiver, acetylated	Acetylated Vetiver oil	68917340	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.07% in lip products, 0.08% in deodorants/antiperspirants, 0.35% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.04% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.55% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.67% in mouthwashes, breath sprays, and toothpastes, 0.17% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
Oils, vetiver, acetylated	Acetylated Vetiver oil	68917340	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.050% Category 2) 0.050% Category 3) 0.050% Category 4) 0.90% Category 5A) 0.10% Category 5B) 0.10% Category 5C) 0.10% Category 5D) 0.033% Category 6) 0.098% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.033% Category 9) 0.20% Category 10A) 0.20% Category 10B) 3.8% Category 11A) 0.033% Category 11B) 0.033% Category 12) No Restriction	
OLEA EUROPAEA (OLIVE) OIL UNSAPONIFIABLES	OLEA EUROPAEA (OLIVE) OIL UNSAPONIFIABLES	156798-12-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
OLEAMIDE DEA	OLEAMIDE DEA	93834	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
OLEAMIDE DEA	OLEAMIDE DEA	93-83-4	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
OLEAMIDE MEA	OLEAMIDE MEA	111-58-0	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
OLEAMIDE MIPA	OLEAMIDE MIPA	111-05-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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OLEAMIDOPROPYL BETAINE	OLEAMIDOPROPYL BETAINE	25054766	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
OLEAMIDOPROPYL DIMETHYLAMINE	Oleamidopropyl dimethylamine	109284	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
OLEAMIDOPROPYL HYDROXSULTAINE	OLEAMIDOPROPYL HYDROXSULTAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OLEAMINE	OLEAMINE	112903	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
OLEAN-12-EN-29-OIC ACID, 3-(ACETYLOXY)-11-OXO-, ALUMINUM SALT, (3-BETA,20-BETA)-	Aluminum Compounds	29728-34-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
OLEIC/LINOLEIC TRIGLYCERIDE	OLEIC/LINOLEIC TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OLEIC/PALMITIC/LAURIC/MYRISTIC/LINOLEIC TRIGLYCERIDE	OLEIC/PALMITIC/LAURIC/MYRISTIC/LINOLEIC TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OLEOYL SARCOSINE	OLEOYL SARCOSINE	110-25-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR restricts this ingredient to products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
OLETH-10	OLETH9	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH82	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH8	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH7	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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OLETH-10	OLETH6	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH50	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH44	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH40	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH35	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH30	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH25	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH24	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH23	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH20	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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OLETH-10	OLETH15	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH12	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH11	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH106	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH2	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10	OLETH10	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 CARBOXYLIC ACID	Oleth6 Carboxylic Acid	57635480	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 CARBOXYLIC ACID	Oleth3 Carboxylic Acid	57635480	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 CARBOXYLIC ACID	Oleth10 Carboxylic Acid	57635480	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 PHOSPHATE	Oleth5 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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OLETH-10 PHOSPHATE	Oleth4 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 PHOSPHATE	Oleth20 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 PHOSPHATE	Oleth2 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 PHOSPHATE	Oleth3 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-10 PHOSPHATE	Oleth10 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-106	OLETH106	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-11	OLETH11	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-12	OLETH12	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-15	OLETH15	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-16	OLETH16	25190050	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OLETH-2	OLETH2	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-2 BENZOATE	Oleth2 Benzoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-2 PHOSPHATE	Oleth2 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-2 POLYSORBATE 20	Oleth2 Polysorbate 20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-20	OLETH20	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-20 PHOSPHATE	Oleth20 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-23	OLETH23	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-24	OLETH24	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-25	OLETH25	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-3	OLETH3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OLETH-3 CARBOXYLIC ACID	Oleth3 Carboxylic Acid	57635480	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-3 PHOSPHATE	Oleth3 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-30	OLETH30	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-35	OLETH35	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-4	OLETH4	5353264	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-4 PHOSPHATE	Oleth4 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-40	OLETH40	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-44	OLETH44	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-5	OLETH5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-5 PHOSPHATE	Oleth5 Phosphate	39464692	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OLETH-50	OLETH50	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-6	OLETH6	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-6 CARBOXYLIC ACID	Oleth6 Carboxylic Acid	57635480	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-7	OLETH7	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-8	OLETH8	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-82	OLETH82	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLETH-9	OLETH9	9004982	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLEYL BETAINE	OLEYL BETAINE	871-37-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OLEYL ETHYL PHOSPHATE	OLEYL ETHYL PHOSPHATE	10483-96-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OLEYL PHOSPHATE	OLEYL PHOSPHATE	37310-83-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OLIVAMIDE DEA	OLIVAMIDE DEA	124046306	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OLIVAMIDE DEA	OLIVAMIDE DEA	124046-30-6	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nitroso compounds cannot form.	
OLIVAMIDOPROPYL BETAINE	OLIVAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
OLIVAMIDOPROPYL DIMETHYLAMINE	OLIVAMIDOPROPYL DIMETHYLAMINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
OLIVE OIL GLYCERETH-8 ESTERS	OLIVE OIL GLYCERETH-8 ESTERS		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	x
OLIVE OIL PEG-10 ESTERS	Peg6 Olive Glycerides	103819461	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVE OIL PEG-10 ESTERS	Peg2 Olive Glycerides	103819461	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVE OIL PEG-10 ESTERS	Olive Oil Peg6 Esters	103819461	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVE OIL PEG-10 ESTERS	Olive Oil Peg10 Esters	103819461	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVE OIL PEG-10 ESTERS	OLIVE OIL PEG-10 ESTERS	103819-46-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OLIVE OIL PEG-6 ESTERS	Olive Oil Peg6 Esters	103819461	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVE OIL PEG-6 ESTERS	OLIVE OIL PEG-6 ESTERS	103819-46-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OLIVE OIL PEG-7 ESTERS	Olive Oil Peg7 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVE OIL PEG-7 ESTERS	OLIVE OIL PEG-7 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OLIVE OIL PEG-8 ESTERS	Olive Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVE OIL PEG-8 ESTERS	OLIVE OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OLIVE OIL PEG/PPG-3/1 ESTERS	Olive Oil Peg/ppg3/1 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OLIVEAMIDE MEA	OLIVEAMIDE MEA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OLIVINE	CLAYS AND MINERALS	1317-71-1	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
OPOPANAX CHIRONIUM RESIN EXTRACT	OPOPANAX CHIRONIUM RESIN EXTRACT	93384328	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
OPOPANAX CHIRONIUM RESIN EXTRACT	OPOPANAX CHIRONIUM RESIN STEAMDISTILLED OIL	93384328	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
OPOPANAX CHIRONIUM RESIN EXTRACT	Opoponax (all forms)	93384328	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.6% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 0.6% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.6% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
OPOPANAX CHIRONIUM RESIN EXTRACT	Opoponax	93384328	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077% Category 2) 0.023% Category 3) 0.46% Category 4) 0.43% Category 5A) 0.11% Category 5B) 0.11% Category 5C) 0.11% Category 5D) 0.11% Category 6) 0.25% Category 7A) 0.88% Category 7B) 0.88% Category 8) 0.045% Category 9) 0.84% Category 10A) 3.0% Category 10B) 3.0% Category 11A) 1.7% Category 11B) 1.7% Category 12) No Restriction; Benzopyrene and 1,2Benzanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Birch tar oils or rectified Styra oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.	
OPOPANAX CHIRONIUM RESIN STEAM-DISTILLED OIL	OPOPANAX CHIRONIUM RESIN STEAMDISTILLED OIL	93384328	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
Opoponax	Opoponax (all forms)	9000786	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.6% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 0.6% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.6% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
Opoponax	Opoponax	8021361	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077% Category 2) 0.023% Category 3) 0.46% Category 4) 0.43% Category 5A) 0.11% Category 5B) 0.11% Category 5C) 0.11% Category 5D) 0.11% Category 6) 0.25% Category 7A) 0.88% Category 7B) 0.88% Category 8) 0.045% Category 9) 0.84% Category 10A) 3.0% Category 10B) 3.0% Category 11A) 1.7% Category 11B) 1.7% Category 12) No Restriction; Benzopyrene and 1,2Benzanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Birch tar oils or rectified Styra oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.	
Opoponax	Opoponax	9000786	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077% Category 2) 0.023% Category 3) 0.46% Category 4) 0.43% Category 5A) 0.11% Category 5B) 0.11% Category 5C) 0.11% Category 5D) 0.11% Category 6) 0.25% Category 7A) 0.88% Category 7B) 0.88% Category 8) 0.045% Category 9) 0.84% Category 10A) 3.0% Category 10B) 3.0% Category 11A) 1.7% Category 11B) 1.7% Category 12) No Restriction; Benzopyrene and 1,2Benzanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Birch tar oils or rectified Styra oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Opoponax	Opoponax	93384328	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077% Category 2) 0.023% Category 3) 0.46% Category 4) 0.43% Category 5A) 0.11% Category 5B) 0.11% Category 5C) 0.11% Category 5D) 0.11% Category 6) 0.25% Category 7A) 0.88% Category 7B) 0.88% Category 8) 0.045% Category 9) 0.84% Category 10A) 3.0% Category 10B) 3.0% Category 11A) 1.7% Category 11B) 1.7% Category 12) No Restriction; Benzopyrene and 1,2Benzanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Birch tar oils or rectified Styrax oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.	
OPOPONAX OIL	Opoponax oil	8021361	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
OPOPONAX OIL	Opoponax (all forms)	8021361	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.6% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 0.6% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.6% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
OPOPONAX OIL	Opoponax	8021361	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077% Category 2) 0.023% Category 3) 0.46% Category 4) 0.43% Category 5A) 0.11% Category 5B) 0.11% Category 5C) 0.11% Category 5D) 0.11% Category 6) 0.25% Category 7A) 0.88% Category 7B) 0.88% Category 8) 0.045% Category 9) 0.84% Category 10A) 3.0% Category 10B) 3.0% Category 11A) 1.7% Category 11B) 1.7% Category 12) No Restriction; Benzopyrene and 1,2Benzanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Birch tar oils or rectified Styrax oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.	
OPTIPHEN	SORBIC ACID	110441	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
OPTIPHEN	Phenoxyethanol		The Cosmetic Ingredient Review has determined that Phenoxyethanol (a component of several branded preservatives) is safe as used up to a concentration of 1%.	
OPTIPHEN	Phenoxyethanol		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1%.	
ORBIGNYA OLEIFERA (BABASSU) SEED OIL	ORBIGNYA OLEIFERA SEED OIL	91078-92-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 27%	
ORBIGNYA OLEIFERA SEED OIL PEG-8 ESTERS	Orbignya Oleifera Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ORBIGNYA OLEIFERA SEED OIL PEG-8 ESTERS	ORBIGNYA OLEIFERA SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ORBIGNYA SPECIOSA KERNEL OIL	ORBIGNYA SPECIOSA KERNEL OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.9%.	
ORYZA SATIVA (BROWN RICE)	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) BRAN	ORYZA SATIVA (RICE) BRAN		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
ORYZA SATIVA (RICE) BRAN EXTRACT	ORYZA SATIVA (RICE) BRAN EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
ORYZA SATIVA (RICE) BRAN EXTRACT	ORYZA SATIVA (RICE) BRAN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ORYZA SATIVA (RICE) BRAN OIL	ORYZA SATIVA (RICE) BRAN OIL	68553-81-1	Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) BRAN WATER	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) BRAN WAX	ORYZA SATIVA (RICE) BRAN WAX	8016-60-2	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
ORYZA SATIVA (RICE) BRAN WAX	ORYZA SATIVA (RICE) BRAN EXTRACT	8016-60-2	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
ORYZA SATIVA (RICE) EXTRACT	ORYZA SATIVA (RICE) BRAN OIL	68553-81-1	Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) EXTRACT	ORYZA SATIVA (RICE) EXTRACT	68553-81-1	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
ORYZA SATIVA (RICE) FLOUR	ORYZA SATIVA (RICE) BRAN OIL	68553-81-1	Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) GERM OIL	ORYZA SATIVA (RICE) GERM OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
ORYZA SATIVA (RICE) HULL POWDER	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) HULLS	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
Oryza Sativa (Rice) Lipids	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
Oryza Sativa (Rice) Lipids	ORYZA SATIVA (RICE) EXTRACT		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
ORYZA SATIVA (RICE) OIL	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) POWDER	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) PROTEIN	ORYZA SATIVA (RICE) BRAN OIL		Upon review of these ingredients, the Panel expressed concern regarding gossypol (for cotton-derived ingredients), pesticide residues, and heavy metals that may be present in botanical ingredients.	
ORYZA SATIVA (RICE) STARCH	ORYZA SATIVA (RICE) STARCH	9005-25-8	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: heavy metals and pesticides.	
OXALIC ACID	oxalic acid	144627	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
OXIDIZED KERATIN	OXIDIZED KERATIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
OXIDIZED POLYETHYLENE	Oxidized Polyethylene	68441178	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg8/17 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg7/50 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg6/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg5/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg4/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg35/9 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg32/3 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg300/55 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg30/33 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg30/160 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg26/31 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg25/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg23/50 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg23/17 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg200/70 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg18/4 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg160/31 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg150/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg125/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg10/70 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg10/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ppg1/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ Ppg240/ 60 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Oxirane, 2-methyl-, polymer with oxirane	Peg/ Ppg 38/ 8 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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Oxirane, 2-methyl-, polymer with oxirane	Peg/ Ppg 116/ 66 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
OXIRANE, METHYL, POLYMER WITH OXIRANE, MONO(2ETHYLHEXYL) ETHER	OXIRANE, METHYL, POLYMER WITH OXIRANE, MONO(2ETHYLHEXYL) ETHER	64366-70-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
OXYBENZONE	BENZOPHENONE3	131577	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
OXYBENZONE	2HYDROXY4METHOXYBENZOPHENONE	131-57-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in products meant to be applied to the mucosa.	
OXYBENZONE	2HYDROXY4METHOXYBENZOPHENONE	131-57-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 5% in leaveon products (not applied to mucosa).	
OXYBENZONE	OXYBENZONE	131-57-7	Per COSING, the maximum concentration in RTU preparation is a) 6% in Face products, hand products, and lip products, excluding propellant and pump spray products b) 2.2% in Body products, including propellant and pump spray products c) 0.5% in other products. Footnote: If used at 0.5% to protect product formulation, the level used as UV filter must be 0.5% less (ex. 5.5% in face products or 1.5% in body products)	x
OXYQUINOLINE	OXYQUINOLINE	148243	The European Commission restricts this ingredient to a maximum concentration of 0.3% (as base) in hair rinseoff products and 0.03% (as base) in hair leaveon products, both as a stabilizer for hydrogen peroxide.	
OXYQUINOLINE	OXYQUINOLINE	148-24-3	The Cosmetic Ingredient Review restricts the use of this ingredient to a stabilizer for hydrogen peroxide in rinseoff hair products.	
OZOKERITE	OZOKERITE	12198-93-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 22%	
OZOKERITE	OZOKERITE	64742332	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 3% and PAH levels must be below 10 ppb. Mineral waxes must have an average molecular weight of at least 500 Daltons and a viscosity value greater than or equal to 11 centistokes at 100oC or greater than or equal to 8 centistokes at 120oC. Additionally, no more than 5% of hydrocarbons with a chain length less than C25 may be present.	
P-AMINOPHENOL	PAMINOPHENOL	123308	The European Commission restricts this ingredient to a maximum concentration of 0.9% applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
P-AMINOPHENOL	PAMINOPHENOL	123308	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
P-CHLORO-M-CRESOL	PCHLOROMCRESOL	59507	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
P-CHLORO-M-CRESOL	chlorocresol	59507	(*) The European Commission restricts this ingredient to a maximum concentration of 0.20% and is prohibited for use in products applied on mucous membranes.	
P-CRESOL	pTolyl alcohol	589184	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.048 % Category 2) 0.048 % Category 3) 0.048 % Category 4) 1.5 % Category 5A) 0.64 % Category 5B) 0.048 % Category 5C) 0.048 % Category 5D) 0.016 % Category 6) 0.048 % Category 7A) 0.048 % Category 7B) 0.048 % Category 8) 0.016 % Category 9) 0.53 % Category 10A) 0.53 % Category 10B) 0.048 % Category 11A) 0.016 % Category 11B) 0.016 % Category 12) No Restriction	
p-Isobutyl-alpha-methyl hydrocinnamaldehyde	pIsobutylαmethyl hydrocinnamaldehyde	6658486	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.07% in lip products, 0.08% in deodorants/antiperspirants, 0.35% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.04% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.55% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.67% in mouthwashes, breath sprays, and toothpastes, 0.17% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
p-Isobutyl-alpha-methyl hydrocinnamaldehyde	pIsobutylαmethyl hydrocinnamaldehyde	6658486	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.080 % Category 2) 0.053 % Category 3) 0.80 % Category 4) 0.99 % Category 5A) 0.25 % Category 5B) 0.25 % Category 5C) 0.25 % Category 5D) 0.083 % Category 6) 0.080 % Category 7A) 0.72 % Category 7B) 0.72 % Category 8) 0.083 % Category 9) 1.9 % Category 10A) 1.9 % Category 10B) 5.4 % Category 11A) 0.083 % Category 11B) 0.083 % Category 12) No Restriction	
P-METHYLAMINOPHENOL	PMETHYLAMINOPHENOL	150754	The European Commission restricts this ingredient to a maximum concentration of 0.68% (as sulphate) in oxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'	
P-METHYLAMINOPHENOL	P-METHYLAMINOPHENOL	150-75-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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P-METHYLAMINOPHENOL SULFATE	PMETHYLAMINOPHENOL SULFATE	1936578	The European Commission restricts this ingredient to a maximum concentration of 0.68% (as sulphate) in oxidative hair dye products. Additionally, this substance cannot be used with nitrosating systems, it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colourants can cause severe allergic reactions'	
P-METHYLAMINOPHENOL SULFATE	PMETHYLAMINOPHENOL SULFATE	55550	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
p-METHYLHYDROCINNAMIC ALDEHYDE	PMETHYLHYDROCINNAMIC ALDEHYDE	5406-12-2	The European Commission restricts this ingredient to a maximum concentration of 0.2%.	
P-PHENYLENEDIAMINE	pphenylenediamine	106503	The European Commission restricts this ingredient to a maximum concentration of 3% (calculated as free base) applied to hair after mixing under oxidative conditions. Required Warning: The European Commission requires the following on the product label/package on general use hair dye: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Do not use to dye eyelashes or eyebrows'. For professionally use hair dye, the European Commission requires the following on the product label/package: The mixing ratio; 'For professionally use only'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'; 'Contains phenylenediamines.'; 'Wear suitable gloves.'	
P-PHENYLENEDIAMINE	pphenylenediamine	106503	The European Commission restricts this ingredient to a maximum concentration of 2% (calculated as free base) when applied to hair after mixing under oxidative conditions.	
P-PHENYLENEDIAMINE	pphenylenediamine	106503	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.04%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
P-PHENYLENEDIAMINE	PPHENYLENEDIAMINE	106503	Health Canada restricts the use of this ingredient to oxidative hair dyes, and it cannot be used on skin products. Required Warning: Health Canada requires the following warning text on the product label/package: 'CAUTION: This product contains ingredients that may cause skin irritation on certain individuals and a preliminary test according to accompanying directions should first be made.'; 'This product must not be used for dyeing the eyelashes or eyebrows. To do so may cause blindness.'; Instructions to the following effect accompany each package of hair dye: 'the preparation may cause serious inflammation of the skin in some persons and a preliminary test should always be carried out to determine whether or not special sensitivity exists'; and to make the test, a small area of skin behind the ear or on the inner surface of the forearm should be cleansed, using either soap and water or alcohol, and a small quantity of the hair dye as prepared for use should be applied to the area and allowed to dry. After 24 hours, the area should be washed gently with soap and water. If no irritation or inflammation is apparent, it is usually assumed that no hypersensitivity to the dye exists. The test should, however, be carried out before each application. On no account should the hair dye be used for dyeing eyebrows or eyelashes as severe inflammation of the eye or even blindness may result.	
P-PHENYLENEDIAMINE	pphenylenediamine	106503	(*) Health Canada restricts the use of this ingredient to oxidative hair dyes with a maximum concentration of 3% after dilution with an oxidizer, and it cannot be used on skin products.	
P-PHENYLENEDIAMINE HCL	PPHENYLENEDIAMINE HCL	624180	The European Commission restricts this ingredient to a maximum concentration of 2% (calculated as free base) when applied to hair after mixing under oxidative conditions.	
P-PHENYLENEDIAMINE HCL	1,4Phenylenediamine dihydrochloride	624180	(*) Health Canada restricts the use of this ingredient to oxidative hair dyes with a maximum concentration of 3% after dilution with an oxidizer, and it cannot be used on skin products.	
P-PHENYLENEDIAMINE SULFATE P-PHENYLENEDIAMINE SULFATE	PPHENYLENEDIAMINE SULFATE PPHENYLENEDIAMINE SULFATE	16245775	The European Commission restricts this ingredient to a maximum concentration of 2% (calculated as free base) when applied to hair after mixing under oxidative conditions.	
P-PHENYLENEDIAMINE SULFATE P-PHENYLENEDIAMINE SULFATE	1,4Phenylenediamine Sulfate	16245775	(*) Health Canada restricts the use of this ingredient to oxidative hair dyes with a maximum concentration of 3% after dilution with an oxidizer, and it cannot be used on skin products.	
P-PHENYLENEDIAMINE, N,N-BIS(2-HYDROXYETHYL)-, SULFATE (1:1)	N,NBIS(2HYDROXYETHYL)PPHENYLENEDIAMINE SULFATE	63886759	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
PADIMATE O	2ETHYLHEXYLPDIMETHYLAMINO BENZOATE	21245-02-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
PADIMATE O	2ETHYLHEXYLPDIMETHYLAMINO BENZOATE	21245-02-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 7% in products meant to be applied to the mucosa.	
PADIMATE O	2ETHYLHEXYLPDIMETHYLAMINO BENZOATE	21245-02-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
PAEONIA SUFFRUTICOSA SEED OIL	PAEONIA SUFFRUTICOSA SEED OIL		Fatty acids are a major component of this substance. The Cosmetics Ingredient Review found fatty acids to be safe as used in cosmetics when formulated to be non-sensitizing and non-irritating.	x
PALAU WHITE CLAY EXTRACT	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

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PALM ACID	PALM ACID		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 17%.	
PALM KERNEL ACID	PALM KERNEL ACID	101403-98-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
PALM KERNELAMIDE DEA	PALM KERNELAMIDE DEA	73807155	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
PALM KERNELAMIDE DEA	PALM KERNELAMIDE DEA	73807-15-5	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
PALM KERNELAMIDE MEA	PALM KERNELAMIDE MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
PALM KERNELAMIDE MIPA	PALM KERNELAMIDE MIPA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PALM KERNELAMIDOPROPYL BETAINE	PALM KERNELAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
PALM OIL PEG-8 ESTERS	Palm Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PALM OIL PEG-8 ESTERS	PALM OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PALMAMIDE DEA	PALMAMIDE DEA		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
PALMAMIDE DEA	PALMAMIDE DEA		The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
PALMAMIDE MEA	PALMAMIDE MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
PALMAMIDE MIPA	PALMAMIDE MIPA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PALMAMIDOPROPYL BETAINE	PALMAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
PALMARIA PALMATA (DULSE) EXTRACT	PALMARIA PALMATA (DULSE) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PALMITAMIDE DEA	PALMITAMIDE DEA	7545246	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
PALMITAMIDE DEA	PALMITAMIDE DEA	7545-24-6	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
PALMITAMIDE MEA	PALMITAMIDE MEA	544-31-0	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
PALMITAMIDOPROPYL BETAINE	PALMITAMIDOPROPYL BETAINE	32954431	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
PALMITAMIDOPROPYL DIMETHYLAMINE	Palmitamidopropyl dimethylamine	39669971	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
PALMITAMINE	PALMITAMINE	143271	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
PALMITIC ACID	PALMITIC ACID	57103	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PALMITOYL GLYCINE	Palmitoyl glycine		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%	
PALMITOYL HEXAPEPTIDE 12	Palmitoyl hexapeptide12	171263266	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.002%	
PALMITOYL INULIN	PALMITOYL INULIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PALMITOYL OLIGOPEPTIDE	Palmitoyl oligopeptide		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.002%	
PALMITOYL TETRAPEPTIDE-7	Palmitoyl Tetrapeptide7	221227-05-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.0015%	
PALMITOYL TRIPEPTIDE-1	Palmitoyl tripeptide1	147732567	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.001%	
PALMITOYLPROLINE	palmitoyl proline	59441-32-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.65%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PANAX GINSENG (GINSENG) ROOT	Panax ginseng	50647-08-0	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
PANAX GINSENG (GINSENG) ROOT	PANAX GINSENG (GINSENG) ROOT	50647-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANAX GINSENG (GINSENG) ROOT EXTRACT	PANAX GINSENG (GINSENG) ROOT EXTRACT	90045-38-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANAX GINSENG ROOT PROTOPLASTS	PANAX GINSENG ROOT PROTOPLASTS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANAX GINSENG ROOT WATER	PANAX GINSENG ROOT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANAX JAPONICUS ROOT EXTRACT	PANAX JAPONICUS ROOT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANAX NOTOGINSENG ROOT POWDER	PANAX NOTOGINSENG ROOT POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANAX QUINQUEFOLIUM ROOT EXTRACT	PANAX QUINQUEFOLIUM ROOT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANCREATIN	Pancreatin	8049476	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
PANTHENOL	PANTHENOL	16485-10-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PANTHENYL ETHYL ETHER	Panthenyl Ethyl Ether	667-83-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
PANTHENYL ETHYL ETHER ACETATE	PANTHENYL ETHYL ETHER ACETATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PANTHENYL TRIACETATE	Panthenyl Triacetate	94089-18-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
PANTOTHENAMIDE MEA	Pantothenamide MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
PANTOTHENAMIDE MEA	PANTOTHENAMIDE MEA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PAPAIN	papain	9001734	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
PAPAVERINE	papaverine	58-74-2	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
PARACHLOROMETAXYLENOL	CHLOROXYLENOL	1321239	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
PARAFFIN	Paraffin	64742514; 8002742	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 3% and PAH levels must be below 10 ppb. Mineral waxes must have an average molecular weight of at least 500 Daltons and a viscosity value greater than or equal to 11 centistokes at 100oC or greater than or equal to 8 centistokes at 120oC. Additionally, no more than 5% of hydrocarbons with a chain length less than C25 may be present.	

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Paraffin waxes, petroleum, clay-treated	CLAYS AND MINERALS	64742-43-4	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
PASSIFLORA EDULIS (PASSION FRUIT) SEED OIL	PASSIFLORA EDULIS SEED OIL	97676-26-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
PCA	PCA	98793	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%	
PCA	PCA	98-79-3	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	x
PCA DIMETHICONE	PCA DIMETHICONE	179005-03-9	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEANUT GLYCERIDES	Peanut oil, extracts and derivatives	91744773	Europe restricts this chemical: Maximum concentration of peanut proteins: 0.5 ppm	
PEANUT OIL PEG-6 ESTERS	Peanut Oil Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEANUT OIL PEG-6 ESTERS	PEANUT OIL PEG-6 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEANUTAMIDE MEA	PEANUTAMIDE MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nitroso compounds may be formed.	
PEANUTAMIDE MIPA	PEANUTAMIDE MIPA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PECTIN	Pectin	9000695	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PECTIN	PECTIN	9000-69-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Pectinase	Pectinase		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PEG 8 AMODIMETHICONE	PEG 8 AMODIMETHICONE	182700-78-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG 8 AMODIMETHICONE	PEG 8 AMODIMETHICONE	182700-78-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG RICINOLEATE/DIMETHICONE COPOLYL	Peg Ricinoleate/dimethicone Copoly		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG SOYA STEROL	Peg Soya Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG90 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG75 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg7 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG6 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG55 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG50 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG5 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg45 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg36 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG STEARATE	Peg35 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG32 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG30 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg3 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg25 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg23 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG20 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg18 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG150 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg15 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG STEARATE	Peg14 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg120 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG12 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG100 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG10 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PegStearates	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG8 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	PEG40 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG STEARATE	Peg Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-## HYDROGENATED CASTOR OIL	Peg## Hydrogenated Castor Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-1 GLYCERYL SORBITAN OLEOSTEARATE	Peg1 Glyceryl Sorbitan Oleostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-1 STEARATE	Peg1 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10	PEG10	5579668	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10	PEG10	5579-66-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
PEG-10 C12-18 ALKYL ETHER	Peg10 C1218 Alkyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 CASTOR OIL	Peg10 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 CASTOR OIL	PEG-10 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 COCAMINE	PEG10 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 COCO-BENZONIUM CHLORIDE	Peg10 CocoBenzonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 COCOATE	Peg10 Cocoate	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 COCONUT OIL ESTER	Peg10 Coconut Oil Ester		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-10 DIMALEATE COPOLYMER	Peg10 Dimaleate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 DIMETHICONE	PEG10 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 DIMETHICONE	PEG10 DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 21%.	
PEG-10 DIMETHICONE	PEG-10 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-10 DIMETHICONE CROSSPOLYMER	Peg10 Dimethicone Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 DIMETHICONE CROSSPOLYMER	PEG-10 DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-10 DIMETHICONE CROSSPOLYMER	PEG-10 DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-10 DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER	Peg10 Dimethicone/ Vinyl Dimethicone Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER	PEG-10 DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-10 DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER	PEG-10 DIMETHICONE/ VINYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-10 DIOLEATE	Peg10 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 DIOLEATE	PEG-10 DIOLEATE	9005-07-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-10 GLYCERYL ISOSTEARATE	Peg10 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL OLEATE	Peg30 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL OLEATE	Peg25 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL OLEATE	Peg20 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL OLEATE	Peg15 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL OLEATE	Peg10 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL STEARATE	Peg10 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL TRIISOSTEARATE	Peg10 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 GLYCERYL TRISTEARATE	Peg10 Glyceryl Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 HYDROGENATED CASTOR OIL	Peg10 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 HYDROGENATED CASTOR OIL	PEG-10 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-10 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg10 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-10 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg10 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-10 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 HYDROGENATED LANOLIN	PEG10 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 HYDROGENATED TALLOW AMINE	Peg10 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 HYDROGENATED TALLOW AMINE	PEG-10 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 ISOLAURYL THIOETHER	Peg10 Isolauryl Thioether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 ISOSTEARATE	Peg10 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 LANOLATE	Peg10 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 LANOLIN	PEG10 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-10 LAURATE	PEG10 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 LAURATE	PEG10 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-10 METHYL ETHER DIMETHICONE	Peg10 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 METHYL ETHER DIMETHICONE	PEG-10 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-10 NONAFLUOROHXYL DIMETHICONE COPOLYMER	Peg10 Nonfluorohexyl Dimethicone Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEAMINE	Peg6 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEAMINE	Peg5 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEAMINE	Peg30 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEAMINE	Peg25 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEAMINE	Peg20 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEAMINE	Peg15 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-10 OLEAMINE	Peg10 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEAMINE	PEG-10 OLEAMINE	26635-93-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 OLEATE	Peg9 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg8 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg75 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg7 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg6 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg5 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg4 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg36 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg32 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-10 OLEATE	Peg3 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg23 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg20 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg16 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg150 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg15 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg14 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg12 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg11 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLEATE	Peg10 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-10 OLIVE GLYCERIDES	Peg10 Olive Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLIVE GLYCERIDES	PEG-10 OLIVE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 OLIVE OIL	Peg10 Olive Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 OLIVE OIL GLYCERIDES	Peg10 Olive Oil Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 PHYTOSTEROL	Peg10 Phytosterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 POLYGLYCERYL-2 LAURATE	Peg10 Polyglyceryl2 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 PROPYLENE GLYCOL	PEG10 PROPYLENE GLYCOL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 RAPESEED STEROL	Peg10 Rapeseed Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 SORBITAN LAURATE	PEG10 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 SORBITAN LAURATE	PEG10 SORBITAN LAURATE	9005-64-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
PEG-10 SOYA STEROL	Peg10 Soya Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 SOYA STEROL	PEG10 SOY STEROL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	

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PEG-10 SOYAMINE	Peg10 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 SOYAMINE	PEG-10 SOYAMINE	61791-24-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 STEARAMIDE	Peg10 Stearamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 STEARAMIDE	PEG-10 STEARAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 STEARAMINE	Peg50 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 STEARAMINE	Peg5 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 STEARAMINE	Peg2 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 STEARAMINE	Peg15 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 STEARAMINE	Peg10 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 STEARAMINE	PEG-10 STEARAMINE	9003-93-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 STEARATE	PEG10 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-10 STEARYL BENZONIUM CHLORIDE	Peg10 Stearyl Benzonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 SUNFLOWER GLYCERIDES	Peg2 Sunflower Glycerides	180254528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 SUNFLOWER GLYCERIDES	Peg10 Sunflower Glycerides	180254528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 SUNFLOWER GLYCERIDES	PEG-10 SUNFLOWER GLYCERIDES	180254-52-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10 TALLATE	Peg8 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLATE	Peg5 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLATE	Peg4 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLATE	Peg20 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLATE	Peg16 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLATE	Peg15 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLATE	Peg14 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-10 TALLATE	Peg12 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLATE	Peg10 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TALLOW AMINOPROPYLAMINE	Peg10 Tallow Aminopropylamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TRIFLUOROPROPYL DIMETHICONE COPOLYMER	Peg10 Trifluoropropyl Dimethicone Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TSUBAKIATE GLYCERIDES	Peg10 Tsubakiate Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10 TSUBAKIATE GLYCERIDES	PEG-10 TSUBAKIATE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-10/LAURYL DIMETHICONE CROSSPOLYMER	PEG10/LAURYL DIMETHICONE CROSSPOLYMER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-10/LAURYL DIMETHICONE CROSSPOLYMER	PEG10/LAURYL DIMETHICONE CROSSPOLYMER		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
PEG-10/LAURYL DIMETHICONE CROSSPOLYMER	PEG-10/LAURYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-100	PEG100		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-100 CASTOR OIL	Peg100 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-100 CASTOR OIL	PEG-100 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-100 HYDROGENATED CASTOR OIL	Peg100 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-100 HYDROGENATED CASTOR OIL	PEG-100 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-100 ISOPROPYL MYRISTAT	Peg100 Isopropyl Myristat		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-100 LANOLIN	PEG100 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-100 SOYA STEROL	Peg100 Soya Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-100 STEARATE	PEG100 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-100 STEARATE	PEG100 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
PEG-100/IPDI COPOLYMER	Peg100/ipdi Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-105 BEHENYL PROPYLENEDIAMINE	Peg105 Behenyl Propylenediamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 AVOCADO GLYCERIDES	Peg14 Avocado Glycerides	103819449	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 AVOCADO GLYCERIDES	Peg11 Avocado Glycerides	103819449	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-11 AVOCADO GLYCERIDES	PEG-11 AVOCADO GLYCERIDES	103819-44-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-11 BABASSU GLYCERIDES	Peg11 Babassu Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 BABASSU GLYCERIDES	PEG-11 BABASSU GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-11 CASTOR OIL	Peg11 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 CASTOR OIL	PEG-11 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-11 COCAMIDE	Peg11 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 COCAMIDE	PEG-11 COCAMIDE	61791-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-11 COCOA BUTTER GLYCERIDES	Peg11 Cocoa Butter Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 COCOA BUTTER GLYCERIDES	PEG-11 COCOA BUTTER GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-11 LAURAMIDE	Peg11 Lauramide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 LAURAMIDE	PEG-11 LAURAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-11 METHYL ETHER DIMETHICONE	Peg11 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 METHYL ETHER DIMETHICONE	PEG-11 METHYL ETHER DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

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PEG-11 METHYL ETHER DIMETHICONE	PEG-11 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-11 OLEATE	Peg11 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 TALLOW AMINE	Peg11 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-11 TALLOW AMINE	PEG-11 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-114 METHYLETHER POLYEPSILON CAPRALACTONE	Peg114 Methylene Polyepsilon Caprolactone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-115M	PEG115M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-1182 METHYL ESTER SERICIN	Peg1182 Methyl Ester Sericin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12	PEG12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 BEESWAX	Peg12 Beeswax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 CARNAUBA	Peg12 Carnauba		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DIISOSTEARATE	Peg12 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DIISOSTEARATE	PEG-12 DIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-12 DILAURATE	PEG12 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DIMETHICONE	PEG12 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DIMETHICONE	PEG-12 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-12 DIMETHICONE COPOLYOL	Peg12 Dimethicone Copolyol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DIMETHICONE CROSSPOLYMER	Peg12 Dimethicone Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DIMETHICONE CROSSPOLYMER	PEG-12 DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-12 DIMETHICONE CROSSPOLYMER	PEG-12 DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-12 DIOLEATE	Peg12 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DIOLEATE	PEG-12 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-12 DISTEARATE	PEG75 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	PEG6 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-12 DISTEARATE	PEG32 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	PEG3 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	Peg250 Distearate	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	PEG20 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	Peg190 Distearate	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	PEG175 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	PEG120 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	PEG150 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DISTEARATE	PEG12 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DITALLATE	Peg8 Ditallate	61791013	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-12 DITALLATE	Peg12 Ditallate	61791013	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 DITALLATE	PEG-12 DITALLATE	61791-01-3	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-12 GLYCERYL DIMYRISTATE	Peg12 Glyceryl Dimyristate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 GLYCERYL DIOLEATE	Peg12 Glyceryl Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 GLYCERYL DISTEARATE	Peg12 Glyceryl Distearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 GLYCERYL LAURATE	Peg30 Glyceryl Laurate	51248329	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 GLYCERYL LAURATE	Peg23 Glyceryl Laurate	51248329	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 GLYCERYL LAURATE	Peg20 Glyceryl Laurate	51248329	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 GLYCERYL LAURATE	Peg12 Glyceryl Laurate	51248329	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 ISOSTEARATE	Peg12 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 LANOLATE	Peg12 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-12 LAURATE	PEG12 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 LAURATE	PEG12 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-12 METHYL ETHER LAUROXY PEG-5 AMIDOPROPYL DIMETHICONE	Peg12 Methyl Ether Lauroxy Peg5 Amidopropyl Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 METHYL GLUCOSE DIOLEATE	Peg12 Methyl Glucose Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 OLEATE	Peg12 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 PALM KERNEL GLYCERIDES	Peg12 Palm Kernel Glycerides	124046522	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 PALM KERNEL GLYCERIDES	PEG-12 PALM KERNEL GLYCERIDES	124046-52-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-12 PALMITAMINE	Peg12 Palmitamine	68155339	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 PALMITAMINE	PEG-12 PALMITAMINE	68155-33-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-12 STEARATE	PEG12 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-12 STEARATE	PEG12 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
PEG-12 TALLATE	Peg12 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-120 DISTEARATE	PEG120 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 ESTERS	Peg120 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 GLYCERYL STEARATE	Peg120 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 METHYL GLUCOSE	Peg120 Methyl Glucose		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 METHYL GLUCOSE DIOLEATE	PEG120 methyl glucose dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 METHYL GLUCOSE EXTRACT	Peg120 Methyl Glucose Extract		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 METHYL GLUCOSE TRIOLEATE	PEG120 methyl glucose trioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 PROPYLENE GLYCOL STEARATE	PEG120 PROPYLENE GLYCOL STEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-120 STEARATE	Peg120 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-125 COCOPOLYAMINE	Peg125 Cocopolyamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-13 DIPHENYLOL PROPANE	Peg13 Diphenylol Propane	9014862	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-13 ETHYLHEXANOATE	Peg13 Ethylhexanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-13 HYDROGENATED TALLOW AMIDE	Peg13 Hydrogenated Tallow Amide	68783222	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-13 HYDROGENATED TALLOW AMIDE	PEG-13 HYDROGENATED TALLOW AMIDE	68783-22-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-13 MINK GLYCERIDES	Peg13 Mink Glycerides	103819450	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-13 MINK GLYCERIDES	PEG-13 MINK GLYCERIDES	103819-45-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-13 STEARATE	Peg13 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-13 SUNFLOWER GLYCERIDES	Peg13 Sunflower Glycerides	70377912	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-13 SUNFLOWER GLYCERIDES	PEG-13 SUNFLOWER GLYCERIDES	70377-91-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-130 GLYCERYL TALLOWATE	Peg130 Glyceryl Tallowate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-135	PEG135	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-136 Polyvinyl Alcohol	PEG-136 Polyvinyl Alcohol	25820-49-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	x
PEG-14	PEG14	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14	PEG14	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
PEG-14 AVOCADO GLYCERIDES	Peg14 Avocado Glycerides	103819449	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14 AVOCADO GLYCERIDES	PEG-14 AVOCADO GLYCERIDES	103819-44-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-14 DIMETHICONE	PEG14 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14 DIMETHICONE	PEG-14 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-14 LAURATE	PEG14 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14 LAURATE	PEG14 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-14 OLEATE	Peg14 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14 STEARATE	Peg14 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14 TALLATE	Peg14 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-140 GLYCERYL TRISTEARATE	Peg140 Glyceryl Tristearate	41080664	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-140 STEARATE	Peg140 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14M	PEG14M		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-14M	PEG14M		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
PEG-15	Peg15		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 BUTANEDIOL	Peg15 Butanediol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 CASTOR OIL	Peg15 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 CASTOR OIL	PEG-15 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 COCAMINE	PEG5 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCAMINE	PEG3 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCAMINE	PEG20 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-15 COCAMINE	PEG2 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCAMINE	PEG10 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCAMINE	PEG15 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCAMINE OLEATE/PHOSPHATE	Peg15 Cocamine Oleate/phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCOATE	PEG15 COCOATE	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCOMONIUM CHLORIDE	Peg15 Cocomonium Chloride	61791104	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCOMONIUM METHOSULFATE	Peg15 Cocomonium Methosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 COCOPOLYAMINE	Peg15 Cocopolyamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 DEDM HYDANTOIN	Peg15 Dedm Hydantoin	68130121	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 DEDM HYDANTOIN STEARATE	Peg15 Dedm Hydantoin Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-15 DISTEARATE	Peg15 Distearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL ISOSTEARATE	Peg60 Glyceryl Isostearate	68958587	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL ISOSTEARATE	Peg20 Glyceryl Isostearate	68958587	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL ISOSTEARATE	Peg15 Glyceryl Isostearate	68958587	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL LAURATE	Peg15 Glyceryl Laurate	57107956	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL OLEATE	Peg15 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL RICINOLEATE	Peg20 Glyceryl Ricinoleate	51142519	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL RICINOLEATE	Peg15 Glyceryl Ricinoleate	51142519	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL STEARATE	Peg15 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL TRIISOSTEARATE	Peg15 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-15 GLYCERYL TRIOLEATE	Peg15 Glyceryl Trioate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 GLYCERYL TRISTEARATE	Peg15 Glyceryl Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg15 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-15 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg15 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-15 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 HYDROGENATED LANOLIN	Peg15 Hydrogenated Lanolin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 HYDROGENATED LANOLIN	PEG-15 HYDROGENATED LANOLIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-15 HYDROGENATED TALLOW AMINE	Peg15 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 HYDROGENATED TALLOW AMINE	PEG-15 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 HYDROGENATED TALLOWMONIUM CHLORIDE	Peg15 Hydrogenated Tallowmonium Chloride	68187699	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 HYDROXYSTEARATE	Peg15 Hydroxystearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-15 JOJOBA ACID	Peg15 Jojoba Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 JOJOBA ALCOHOL	PEG15 JOJOBA ALCOHOL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 LANOLATE	Peg15 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 LAURATE	Peg15 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 OCTADECYL AMINE	Peg15 Octadecyl Amine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 OLEAMINE	Peg15 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 OLEAMINE	PEG-15 OLEAMINE	26635-93-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 OLEAMMONIUM CHLORIDE	Peg15 Oleammonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 OLEATE	Peg15 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 PENTAERYTHRITYL TETRA(LAURETH-6 CARBOXYLATE)	Peg15 Pentaerythrityl Tetra(Laureth6 Carboxylate)		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 PHYTOSTEROL	Peg15 Phytosterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-15 SOYAMIDE/ IPDI COPOLYMER	Peg15 Soyamide/ IpdI Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 SOYAMINE	Peg15 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 SOYAMINE	PEG-15 SOYAMINE	61791-24-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 STEARAMIDE	Peg15 Stearamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARAMIDE	PEG-15 STEARAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 STEARAMINE	Peg15 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARAMINE	PEG-15 STEARAMINE	9003-93-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 STEARATE	Peg15 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARMONIUM CHLORIDE	Peg15 Stearmonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARYL ETHER	STEARETH4	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARYL ETHER	STEARETH21	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-15 STEARYL ETHER	STEARETH20	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARYL ETHER	STEARETH2	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARYL ETHER	STEARETH16	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARYL ETHER	STEARETH100	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 STEARYL ETHER	Peg15 Stearyl Ether	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 TALLATE	Peg15 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 TALLOW AMINE	Peg15 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 TALLOW AMINE	PEG-15 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-15 TALLOW AMINOPROPYLAMINE	Peg15 Tallow Aminopropylamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15 TALLOW POLYAMINE	Peg15 Tallow Polyamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-15/ LAURYL DIMETHICONE CROSSPOLYMER	PEG15/ LAURYL DIMETHICONE CROSSPOLYMER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-15/ LAURYL DIMETHICONE CROSSPOLYMER	PEG15/ LAURYL DIMETHICONE CROSSPOLYMER		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
PEG-15/ LAURYL DIMETHICONE CROSSPOLYMER	PEG-15/ LAURYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-15/ LAURYL DIMETHICONE CROSSPOLYMER	PEG-15/ LAURYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-150	PEG150	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150	PEG150	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
PEG-150 BEHENTRIMONIUM CHLORIDE	Peg150 Behentrimonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 DIBEHENATE	Peg150 Dibehenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 DIBEHENATE	PEG-150 DIBEHENATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-150 DILAURATE	PEG150 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 DIOLEATE	Peg150 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 DIOLEATE	PEG-150 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-150 DISTEARATE	PEG150 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 LANOLIN	PEG150 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-150 LAURATE	PEG150 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 LAURATE	PEG150 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-150 OLEATE	Peg150 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 PENTAERYTHRITYL TETRASODIUM	Peg150 Pentaerythrityl Tetrasodium		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 PENTAERYTHRITYL TETRASTEARATE	Peg150 Pentaerythrityl Tetrastearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 PENTAERYTHRITYL TETRASTEARATE	PEG-150 PENTAERYTHRITYL TETRASTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-150 SMDI COPOLYMER	Peg150 Smdi Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 STEARATE	PEG150 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150 STEARATE	PEG150 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
PEG-150/ DECYL ALCOHOL/ SMDI COPOLYMER	Peg150/ Decyl Alcohol/ Smdi Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-150/ STEARYL ALCOHOL/ SMDI COPOLYMER	Peg150/ Stearyl Alcohol/ Smdi Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-1500	Peg1500		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-16	PEG16	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 CASTOR OIL	Peg16 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 CASTOR OIL	PEG-16 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-16 CETYL/OLEYL/STEARYL/LANILIN ALCOHOL ETHER	Peg16 Cetyl/oleyl/stearyl/lanilin Alcohol Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 DILAURATE	Peg16 Dilaurate	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 DILAURATE	PEG-16 DILAURATE	9005-02-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-16 HYDROGENATED CASTOR OIL	Peg16 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 HYDROGENATED CASTOR OIL	PEG-16 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-16 HYDROGENATED COTTENSEED OIL	Peg16 Hydrogenated Cottenseed Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 MACADAMIA GLYCERIDES	Peg16 Macadamia Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 MACADAMIA GLYCERIDES	PEG-16 MACADAMIA GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-16 OLEATE	Peg16 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-16 SOY STEROL	PEG16 SOY STEROL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-16 SOY STEROL	PEG16 SOY STEROL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
PEG-16 TALLATE	Peg16 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-160 SORBITAN TRIISOSTEARATE	PEG160 SORBITAN TRIISOSTEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-160M	PEG160M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-17 DIMETHICONE	PEG17 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-17 DIMETHICONE	PEG-17 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-175 DIISOSTEARATE	Peg175 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-175 DIISOSTEARATE	PEG-175 DIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-175 DISTEARATE	PEG175 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18	PEG18	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-18 CASTOR OIL	Peg18 Castor Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 CASTOR OIL DIOLEATE	Peg18 Castor Oil Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 CASTOR OIL DIOLEATE	PEG-18 CASTOR OIL DIOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-18 GLYCERYL OLEATE/ COCOATE	Peg18 Glyceryl Oleate/ Cocoate	999999198	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 PALM GLYCERIDES	Peg18 Palm Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 PALM GLYCERIDES	PEG-18 PALM GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-18 PALMITATE	Peg6 Palmitate	9004948	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 PALMITATE	Peg20 Palmitate	9004948	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 PALMITATE	Peg18 Palmitate	9004948	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 SORBITAN TRIOLEATE	PEG18 SORBITAN TRIOLEATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-18 STEARATE	Peg18 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-180	PEG180	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-180	PEG180	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
PEG-180 BISPOLYLACTIDE	Peg180 Bispolylactide	131151092	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-180 STEARAMIDOPROPYL DIMETHYLAMINE	Peg180 Stearamidopropyl Dimethylamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-180/LAURETH-50/TMMG COPOLYMER	Peg180/laureth50/tmmg Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-180/OCTOXYNOL-40/TMMG COPOLYMER	Peg180/octoxynol40/tmmg Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-190 DISTEARATE	Peg190 Distearate	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-190 DISTEARATE	PEG-190 DISTEARATE	9005-08-7	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-192 APRICOT KERNEL GLYCERIDES	Peg192 Apricot Kernel Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-192 APRICOT KERNEL GLYCERIDES	PEG-192 APRICOT KERNEL GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2	Peg2		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 BENZYL ETHER	Peg2 Benzyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-2 CASTOR OIL	Peg2 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 CASTOR OIL	PEG-2 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 COCAMIDE	Peg2 Cocamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 COCAMIDE	PEG-2 COCAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 COCAMINE	PEG2 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 COCO-BENZONIUM CHLORIDE	Peg2 CocoBenzonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 COCOMONIUM CHLORIDE	Peg2 Cocomonium Chloride	70750479	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIETHYLHEXANOATE	Peg2 Diethylhexanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIISONONANOATE	PEG2 DIISONONANOATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIISOSTEARATE	Peg2 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIISOSTEARATE	PEG-2 DIISOSTEARATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-2 DILAURATE	PEG2 DILAURATE	6281045	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIMEADOWFOAMAMDOETHYLMONIUM METHOSULFATE	Peg2 Dimeadowfoamamdoethylmonium Methosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIMEADOWFOAMAMIDOETHYLMONIUM METHOSULFATE	Peg2 Dimeadowfoamamidoethylmonium Methosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIOLEATE	Peg2 Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DIOLEATE	PEG-2 DIOLEATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 DIROSINATE	Peg2 Dirosinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 DISTEARATE	PEG2 DISTEARATE	109308	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 HYDROGENATED CASTOR OIL	Peg2 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 HYDROGENATED CASTOR OIL	PEG-2 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 HYDROGENATED TALLOW AMINE	Peg2 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 HYDROGENATED TALLOW AMINE	PEG-2 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-2 ISOSTEARATE	Peg2 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 LAURAMIDE	Peg2 Lauramide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 LAURAMIDE	PEG-2 LAURAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 LAURAMINE	Peg2 Lauramine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 LAURAMINE	PEG-2 LAURAMINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 LAURATE	PEG2 LAURATE	141208	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 LAURATE	PEG2 LAURATE	141208	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-2 LAURATE SE	PEG2 LAURATE SE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 LAURATE SE	PEG2 LAURATE SE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-2 MILK SOLIDS	Peg2 Milk Solids		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 MYRISTYL ETHER PROPIONATE	Peg2 Myristyl Ether Propionate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLEAMINE	Peg2 Oleamine	25307179	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLEAMINE	PEG-2 OLEAMINE	25307-17-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-2 OLEAMINE HYDROFLUORIDE	PEG2 OLEAMINE HYDROFLUORIDE	207916334	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLEAMMONIUM CHLORIDE	Peg2 Oleammonium Chloride	18448652	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLEAMONIUM CHLORIDE	Peg2 Oleamonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLEATE	Peg2 Oleate	106127	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLEATE SE	Peg2 Oleate Se		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLIVE GLYCERIDES	Peg2 Olive Glycerides	103819461	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 OLIVE GLYCERIDES	PEG-2 OLIVE GLYCERIDES	103819-46-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 PALMITAMIDE	Peg2 Palmitamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 RAPESEEDAMINE	Peg2 Rapeseedamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 RAPESEEDAMINE	PEG-2 RAPESEEDAMINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 RICINOLEATE	Peg2 Ricinoleate	5401172	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-2 SORBITAN ISOSTEARATE	PEG5 SORBITAN ISOSTEARATE	66794589	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 SORBITAN ISOSTEARATE	PEG2 SORBITAN ISOSTEARATE	66794589	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 SORBITAN TRIOLEATE	Peg2 Sorbitan Trioleate	9005703	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 SORBITAN TRIOLEATE	PEG-2 SORBITAN TRIOLEATE	9005-70-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 SOYAMINE	Peg2 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 SOYAMINE	PEG-2 SOYAMINE	61791-24-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 STEARAMIDE CARBOXYLIC ACID	Peg9 Stearamide Carboxylic Acid	90453591	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 STEARAMIDE CARBOXYLIC ACID	Peg2 Stearamide Carboxylic Acid	90453591	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 STEARAMINE	Peg2 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 STEARAMINE	PEG-2 STEARAMINE	9003-93-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 STEARATE	PEG2 STEARATE	106116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 STEARATE	PEG2 STEARATE	106-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	

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PEG-2 STEARATE SE	Peg2 Stearate Se		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 STEARMONIUM CHLORIDE	Peg2 Stearmonium Chloride	60687878	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 SUNFLOWER GLYCERIDES	Peg2 Sunflower Glycerides	180254528	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 SUNFLOWER GLYCERIDES	PEG-2 SUNFLOWER GLYCERIDES	180254-52-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 TALLOW AMINE	Peg2 Tallow Amine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 TALLOW AMINE	PEG-2 TALLOW AMINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2 TALLOWAMIDE DEA	Peg2 Tallowamide Dea		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2 TALLOWAMIDE DEA	PEG-2 TALLOWAMIDE DEA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20	PEG20	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 ALMOND GLYCERIDES	Peg20 Almond Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 ALMOND GLYCERIDES	PEG-20 ALMOND GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 BEESWAX	Peg20 Beeswax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-20 CARAUBA WAX	Peg20 Carauga Wax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 CARBOMER	Peg20 Carbomer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 CASTOR OIL	Peg20 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 CASTOR OIL	PEG-20 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 CETEARYL ALCOHOL	Peg20 Cetearyl Alcohol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 COCAMIDE	Peg20 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 COCAMIDE	PEG-20 COCAMIDE	61791-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 COCAMIDE MEA	Peg20 Cocamide Mea		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 COCAMIDE MEA	PEG-20 COCAMIDE MEA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 COCAMINE	PEG20 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 CORN GLYCERIDES	Peg20 Corn Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 CORN GLYCERIDES	PEG-20 CORN GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-20 DILAURATE	PEG20 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 DIOLEATE	Peg20 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 DIOLEATE	PEG-20 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 DIRICINOLEATE	Peg20 Diricinoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 DISTEARATE	PEG20 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 ESTERS	Peg20 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 EVENING PRIMROSE GLYCERIDES	Peg20 Evening Primrose Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 EVENING PRIMROSE GLYCERIDES	PEG-20 EVENING PRIMROSE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 GLYCERIDES	Peg20 Glycerides	999999825	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 GLYCERYL ISOSTEARATE	Peg20 Glyceryl Isostearate	68958587	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 GLYCERYL LAURATE	Peg20 Glyceryl Laurate	51248329	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-20 GLYCERYL MONOSTEARATE	Peg20 Glyceryl Monostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 GLYCERYL OLEATE	Peg20 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 GLYCERYL RICINOLEATE	Peg20 Glyceryl Ricinoleate	51142519	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 GLYCERYL STEARATE	Peg20 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 GLYCERYL TRIISOSTEARATE	Peg20 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 GLYCERYL TRISTEARATE	Peg20 Glyceryl Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HEXADECENYLSUCCINATE	Peg20 Hexadecenylsuccinate	178254041	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED CASTOR OIL	Peg20 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED CASTOR OIL	PEG-20 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg20 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-20 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-20 HYDROGENATED CASTOR OIL LAURATE	Peg20 Hydrogenated Castor Oil Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED CASTOR OIL LAURATE	PEG-20 HYDROGENATED CASTOR OIL LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	Peg20 Hydrogenated Castor Oil Pca Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	PEG-20 HYDROGENATED CASTOR OIL PCA ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg20 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-20 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 HYDROGENATED LANOLIN	PEG70 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED LANOLIN	PEG5 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED LANOLIN	PEG30 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED LANOLIN	PEG24 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED LANOLIN	PEG10 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-20 HYDROGENATED LANOLIN	PEG20 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED LANOLIN	PEG20 HYDROGENATED LANOLIN	68648-27-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
PEG-20 HYDROGENATED PALM GLYCERIDES	Peg20 Hydrogenated Palm Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED PALM GLYCERIDES	PEG-20 HYDROGENATED PALM GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 HYDROGENATED TALLOW AMINE	Peg20 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 HYDROGENATED TALLOW AMINE	PEG-20 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 ISOSTEARATE	Peg20 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 LANOLATE	Peg20 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 LANOLIN	PEG20 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 LAURATE	PEG20 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 LAURATE	PEG20 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-20 MANNITAN LAURATE	Peg20 Mannitan Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-20 METHYL GLUCETH-20 SESQUISTEARATE	Peg20 Methyl Gluceth20 Sesquistearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 METHYL GLUCOSE	Peg20 Methyl Glucose		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 METHYL GLUCOSE DIOLEATE	Peg20 Methyl Glucose Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 METHYL GLUCOSE DISTEARATE	PEG20 methyl glucose distearate	119831195	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 METHYL GLUCOSE SESQUICAPRYLATE/SESQUICAPRATE	PEG20 methyl glucose sesquicaprylate/sesquicaprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 METHYL GLUCOSE SESQUILAURATE	PEG20 methyl glucose sesquilaurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 METHYL GLUCOSE SESQUISTEARATE	PEG20 methyl glucose sesquistearate	68389708	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 MYRISTATE	Peg20 Myristate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 OLEAMINE	Peg20 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 OLEAMINE	PEG-20 OLEAMINE	26635-93-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 OLEATE	Peg20 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-20 PALMITATE	Peg20 Palmitate	9004948	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 PHYTOSTEROL	Peg20 Phytosterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 SORBITAN BEESWAX	PEG20 SORBITAN BEESWAX	8051738	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 SORBITAN BEESWAX	PEG20 SORBITAN BEESWAX	8051-73-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%. Additionally, CIR has restricted its use in products meant to be applied on damaged skin if the ingredient is formulated with PEG6, PEG20 or PEG75.	
PEG-20 SORBITAN BEESWAX	PEG-20 SORBITAN BEESWAX	8051-73-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 SORBITAN COCOATE	PEG20 SORBITAN COCOATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 SORBITAN ISOSTEARATE	PEG20 SORBITAN ISOSTEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 SORBITAN LANOLATE	Peg20 Sorbitan Lanolate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 SORBITAN OLEATE	Peg20 Sorbitan Oleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 SORBITAN OLEATE	PEG-20 SORBITAN OLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 SORBITAN TETRAOLEATE	PEG20 SORBITAN TETRAOLEATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-20 SORBITAN TRIISOSTEARATE	PEG20 SORBITAN TRIISOSTEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 SOY STEROL	Peg20 Soy Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 STEARATE	PEG20 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 STEARATE	PEG20 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
PEG-20 TALLATE	Peg20 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 TALLOW AMINE	Peg20 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 TALLOW AMINE	PEG-20 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-20 TALLOW AMMONIUM ETHOSULFATE	Peg20 Tallow Ammonium Ethosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 TALLOWATE	Peg20 Tallowate	68153640	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 TSUBAKIATE GLYCERIDES	Peg20 Tsubakiate Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20 TSUBAKIATE GLYCERIDES	PEG-20 TSUBAKIATE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-20-PPG-10 GLYCERYL STEARATE	Peg20Ppg10 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200	PEG200		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 CASTOR OIL	Peg200 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 CASTOR OIL	PEG-200 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-200 GLYCERYL STEARATE	Peg200 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 GLYCERYL TALLOWATE	Peg200 Glyceryl Tallowate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 HYDROGENATED CASTOR OIL	Peg200 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 HYDROGENATED CASTOR OIL	PEG-200 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-200 HYDROGENATED GLYCERYL	Peg200 Hydrogenated Glyceryl		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 HYDROGENATED GLYCERYL PALMATE	Peg200 Hydrogenated Glyceryl Palmate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 HYDROGENATED GLYCERYL PALMITATE	Peg200 Hydrogenated Glyceryl Palmitate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-200 LAURATE	PEG200 LAURATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 LAURATE	PEG200 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-200 METHYLGLUCOSE DIOLEATE	Peg200 Methylglucose Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 TALLOWATE	Peg200 Tallowate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-200 TRIHYDROXYSTEARIN	Peg200 Trihydroxystearin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20M	PEG20M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-20M	PEG20M	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
PEG-22 TALLOW AMINE	Peg22 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-22 TALLOW AMINE	PEG-22 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-22/DODECYL GLYCOL COPOLYMER	Peg22/dodecyl Glycol Copolymer	78336319	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-220	PEG220	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-220	PEG220	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	

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PEG-23 GLYCERYL DISTEARATE	Peg23 Glyceryl Distearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23 GLYCERYL LAURATE	Peg23 Glyceryl Laurate	51248329	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23 HEXADECYLEICOSANOATE	Peg23 Hexadecyleicosanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23 OCTYLDODECANOATE	Peg23 Octyldodecanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23 OLEATE	Peg23 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23 OLIVATE	Peg23 Oliviate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23 STEARATE	Peg23 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23M	PEG23M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-23M	PEG23M	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.05%.	
PEG-24 GLYCERYL STEARATE	Peg24 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-24 HYDROGENATED LANOLIN	PEG24 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-24 HYDROGENATED LANOLIN	PEG24 HYDROGENATED LANOLIN	68648-27-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
PEG-24 LANOLIN	PEG24 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-240	PEG240	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-240	PEG240	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
PEG-240/HDI COPOLYMER BIS-DECYLTETRADECETH-20 ETHER	Peg240/hdi Copolymer BisDecyltetradeceth20 Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-240/HDI COPOLYMER BIS-DECYLTETRADECETH-20 ETHER	PEG-240/HDI COPOLYMER BIS-DECYLTETRADECETH-20 ETHER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-25 CASTOR OIL	Peg25 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 CASTOR OIL	PEG-25 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-25 DIETHYLMONIUM CHLORIDE	Peg25 Diethylmonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 GLYCERYL ISOSTEARATE	Peg25 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 GLYCERYL OLEATE	Peg25 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 GLYCERYL STEARATE	Peg25 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-25 GLYCERYL TRIOLEATE	Peg25 Glyceryl Trioleate	68958645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 HYDROGENATED CASTOR OIL	Peg25 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 HYDROGENATED CASTOR OIL	PEG-25 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-25 LANOLIN	PEG25 LANOLIN		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 METHYL GLUCOSE ETHER	Peg25 Methyl Glucose Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 MORINGA GLYCERIDES	Peg25 Moringa Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 MORINGA GLYCERIDES	PEG-25 MORINGA GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-25 OLEAMINE	Peg25 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 OLEAMINE	PEG-25 OLEAMINE	26635-93-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-25 PABA	PEG25 PABA	113010529	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 PHYTOSTEROL	Peg25 Phytosterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-25 PROPYLENE GLYCOL STEARATE	PEG25 PROPYLENE GLYCOL STEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 PROPYLENE GLYCOL STEARATE	PEG25 PROPYLENE GLYCOL STEARATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
PEG-25 SOY STEROL	PEG25 SOY STEROL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 SOY STEROL	PEG25 SOY STEROL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
PEG-25 STEARATE	Peg25 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 TALLOW AMINE	Peg25 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-25 TALLOW AMINE	PEG-25 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-25 TALLOW ETHER	Peg25 Tallow Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-250	Peg250		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-250 DISTEARATE	Peg250 Distearate	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-250 DISTEARATE	PEG-250 DISTEARATE	9005-08-7	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-25M	PEG25M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-26 CASTOR OIL	Peg26 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-26 CASTOR OIL	PEG-26 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-26 JOJOBA ACID	Peg26 Jojoba Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-26 JOJOBA ALCOHOL	PEG26 JOJOBA ALCOHOL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-26-PPG-30 PHOSPHATE	Peg26Ppg30 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-27 LANOLIN	PEG27 LANOLIN	8051818	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-27 LANOLIN ALCOHOL	Peg27 Lanolin Alcohol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-28 GLYCERYL TALLOWATE	Peg28 Glyceryl Tallowate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-29 CASTOR OIL	Peg29 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-29 CASTOR OIL	PEG-29 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-2M	PEG2M		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-2M	PEG2M		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-3 2,2'-DI-P-PHENYLENEDIAMINE	PEG3 2,2'DipPhenylenediamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 BUTYLENE GLYCOL LAURATE	Peg3 Butylene Glycol Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 CASTOR OIL	Peg3 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 CASTOR OIL	PEG-3 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 COCAMIDE	Peg3 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 COCAMIDE	PEG-3 COCAMIDE	61791-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 COCAMIDE DEA	Peg3 Cocamide Dea		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 COCAMIDE DEA	PEG-3 COCAMIDE DEA		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 COCAMINE	PEG3 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DICAPRYLATE/CAPRATE	Peg3 Dicaprylate/caprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DICAPRYLATE/CAPRATE	PEG-3 DICAPRYLATE/CAPRATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 DIETHYLENETRIAMINE DIPALMAMIDE	Peg3 Diethylenetriamine Dipalmamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-3 DIISOSTEARATE	Peg3 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DIISOSTEARATE	PEG-3 DIISOSTEARATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 DIMETHICONE	PEG3 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DIOLEATE	Peg3 Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DIOLEATE	PEG-3 DIOLEATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 DIOLEOYLAMIDOETHYLMONIUM METHOSULFATE	Peg3 Dioleoylamidoethylmonium Methosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DIPALMITATE	Peg3 Dipalmitate	32628061	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DIPALMITATE	PEG-3 DIPALMITATE	32628-06-1	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 DIROSINATE	Peg3 Dirosinate	8050257	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DISOYOYLAMIDOETHYLMONIUM METHOSULFATE	Peg3 Disoyoylamidoethylmonium Methosulfate	68605276	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 DISTEARATE	PEG3 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-3 DISTEAROYLAMIDOETHYLMONIUM METHOSULFATE	Peg3 Distearoylamidoethylmonium Methosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 GLYCERYL COCOATE	Peg3 Glyceryl Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 GLYCERYL COCOATE	PEG-3 GLYCERYL COCOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 GLYCERYL DISTEARATE	Peg3 Glyceryl Distearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 GLYCERYL ISOSTEARATE	Peg3 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 GLYCERYL TRIISOSTEARATE	Peg3 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 GLYCERYL TRISTEARATE	Peg3 Glyceryl Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 ISOSTEARATE	Peg3 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 LANOLATE	Peg3 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 LAURAMIDE	Peg3 Lauramide	26635756	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 LAURAMIDE	PEG-3 LAURAMIDE	26635-75-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-3 LAURAMINE OXIDE	Peg3 Lauramine Oxide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 METHYL ETHER	PEG3 METHYL ETHER	112356	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 OLEAMIDE	Peg3 Oleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 OLEAMIDE	PEG-3 OLEAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-3 OLEATE	Peg3 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 PPG-20 SUCCINATE	Peg3 Ppg20 Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 RAPESEED AMINOPROPYLAMINE	Peg3 Rapeseed Aminopropylamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 SORBITAN OLEATE	PEG3 SORBITAN OLEATE	9005656	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 SORBITAN STEARATE	PEG3 SORBITAN STEARATE	9005678	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 SORBITAN TRISTEARATE	Peg3 Sorbitan Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 SORBITAN TRISTEARATE	PEG-3 SORBITAN TRISTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-3 STEARATE	Peg3 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 TALLOW AMINOPROPYLAMINE	Peg3 Tallow Aminopropylamine	90367274	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 TALLOW PROPYLENEDIMONIUM DIMETHOSULFATE	Peg3 Tallow Propylenedimonium Dimethosulfate	93572635	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 TRIMETHYLOLPROPANE TRIISOSTEARATE	Peg3 Trimethylolpropane Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3 TRIMETHYLOLPROPANE TRISTEARATE	Peg3 Trimethylolpropane Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3-BUTETH-5	Peg3Buteth5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3/PPG-2 GLYCERYL/SORBITOL HYDROXYSTEARATE/ISOSTEARATE	Peg3/ppg2 Glyceryl/sorbitol Hydroxystearate/isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30	Peg30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 CASTOR OIL	PEG30 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 DIPOLYHYDROXYSTEARATE	Peg30 Dipolyhydroxystearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-30 GLYCERYL COCOATE	PEG30 GLYCERYL COCOATE	68201467	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 GLYCERYL ISOSTEARATE	Peg30 Glyceryl Isostearate	689587	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 GLYCERYL LAURATE	Peg30 Glyceryl Laurate	51248329	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 GLYCERYL OLEATE	Peg30 Glyceryl Oleate	68889496	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 GLYCERYL STEARATE	Peg30 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 GLYCERYL SULFATE	Peg30 Glyceryl Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 GLYCERYL TRIISOSTEARATE	Peg30 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 HYDROGENATED CASTOR OIL	PEG30 HYDROGENATED CASTOR OIL	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg30 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-30 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-30 HYDROGENATED CASTOR OIL LAURATE	Peg30 Hydrogenated Castor Oil Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-30 HYDROGENATED CASTOR OIL LAURATE	PEG-30 HYDROGENATED CASTOR OIL LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-30 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	Peg30 Hydrogenated Castor Oil Pca Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	PEG-30 HYDROGENATED CASTOR OIL PCA ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-30 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg30 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-30 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-30 HYDROGENATED LANOLIN	PEG30 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 HYDROGENATED TALLOW AMINE	Peg30 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 HYDROGENATED TALLOW AMINE	PEG-30 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-30 ISOSTEARATE	Peg30 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 JOJOBA OIL	Peg30 Jojoba Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 LANOLIN	PEG30 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 LANOLIN	PEG30 LANOLIN	61790-81-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	

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PEG-30 OLEAMINE	Peg30 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 OLEAMINE	PEG-30 OLEAMINE	26635-93-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-30 PHYTOSTEROL	Peg30 Phytosterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 POLYHYDROXYSTEARATE	Peg30 Polyhydroxystearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 SORBITAN BEESWAX	Peg30 Sorbitan Beeswax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 SORBITAN BEESWAX	PEG-30 SORBITAN BEESWAX		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-30 SORBITAN TETRAOLEATE	PEG30 SORBITAN TETRAOLEATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 SOY STEROL	PEG30 SOY STEROL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 STEARATE	PEG30 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 TALLOW AMINE	Peg30 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-30 TALLOW AMINE	PEG-30 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-300	Peg300		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32	PEG32		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32	PEG32		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
PEG-32 DILAURATE	PEG32 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 DIOLEATE	Peg32 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 DIOLEATE	PEG-32 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-32 DISTEARATE	PEG32 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 LAURATE	PEG32 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 LAURATE	PEG32 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-32 METHYL ETHER DIMETHICONE	Peg32 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 METHYL ETHER DIMETHICONE	PEG-32 METHYL ETHER DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-32 METHYL ETHER DIMETHICONE	PEG-32 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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PEG-32 OLEATE	Peg32 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 PVP	Peg32 Pvp		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 SODIUM CHLORIDE	Peg32 Sodium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 STEARATE	PEG32 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-32 STEARATE	PEG32 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
PEG-33	PEG33		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-33 CASTOR OIL	PEG33 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-3350	Peg3350		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-35 ALMOND GLYCERIDES	Peg35 Almond Glycerides	124046500	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-35 ALMOND GLYCERIDES	PEG-35 ALMOND GLYCERIDES	124046-50-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-35 CASTOR OIL	PEG35 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-35 HYDROGENATED CASTOR OIL	Peg35 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-35 HYDROGENATED CASTOR OIL	PEG-35 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-35 LANOLIN	PEG35 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-35 SOY GLYCERIDES	Peg35 Soy Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-35 SOY GLYCERIDES	PEG-35 SOY GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-35 STEARATE	Peg35 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-350	PEG350	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-350	PEG350	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
PEG-36 CASTOR OIL	PEG36 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-36 OLEATE	Peg36 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-36 STEARATE	Peg36 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4	PEG4		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-4 CAPRYLIC/CAPRIC GLYCERIDES	Peg4 Caprylic/capric Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 CAPRYLIC/CAPRIC GLYCERIDES	PEG-4 CAPRYLIC/CAPRIC GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 CASTOR OIL	PEG4 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 CASTOR OIL	PEG-4 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 COCAMIDE	Peg4 Cocamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 COCAMIDE	PEG-4 COCAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 DIHEPTANOATE	Peg4 Diheptanoate	70729689	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 DIHEPTANOATE	PEG-4 DIHEPTANOATE	70729-68-9	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 DIISOSTEARATE	Peg4 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 DIISOSTEARATE	PEG-4 DIISOSTEARATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 DILAURATE	PEG4 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 DIMETHACRYLATE	PEG4 DIMETHACRYLATE	109171	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-4 DIOLEATE	Peg4 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 DIOLEATE	PEG-4 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 DISTEARATE	PEG4 DISTEARATE	142201	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 DISTEARYL ETHER	PEG4 DISTEARYL ETHER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 DISTEARYLETHONIUM ETHOSULFATE	Peg4 Distearylethonium Ethosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 DITALLOW ETHER	PEG4 DITALLOW ETHER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 ETHYLHEXANOATE	Peg4 Ethylhexanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 GLYCERYL DISTEARATE	Peg4 Glyceryl Distearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 GLYCERYL TRISTEARATE	Peg4 Glyceryl Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 ISOSTEARATE	Peg4 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 LANOLATE	Peg4 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-4 LAURATE	PEG4 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 LAURATE	PEG4 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-4 METHYL ETHER	PEG4 METHYL ETHER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 MONTANATE	Peg4 Montanate	68476040	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 OLEAMIDE	Peg4 Oleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 OLEAMIDE	PEG-4 OLEAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 OLEATE	Peg4 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 OLIVATE	Peg4 Oliviate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 POLYGLYCERYL-2 DISTEARATE	Peg4 Polyglyceryl2 Distearate	72828116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 POLYGLYCERYL-2 STEARATE	Peg4 Polyglyceryl2 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 PROLINE LINOLEATE	Peg4 Proline Linoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-4 PROLINE LINOLENATE	Peg4 Proline Linolenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 RAPESEEDAMIDE	PEG4 RAPESEEDAMIDE	85536238	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 RAPESEEDAMIDE	PEG-4 RAPESEEDAMIDE	85536-23-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 SORBITAN LAURATE	Peg4 Sorbitan Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 SORBITAN STEARATE	Peg4 Sorbitan Stearate	9005678	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 SORBITAN STEARATE	PEG-4 SORBITAN STEARATE	9005-67-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 SORBITAN TRIISOSTEARATE	Peg4 Sorbitan Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 SORBITAN TRIISOSTEARATE	PEG-4 SORBITAN TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 STEARAMIDE	Peg4 Stearamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 STEARAMIDE	PEG-4 STEARAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-4 STEARATE	Peg4 Stearate	106070	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 TALLATE	Peg4 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-4 TRIETHANOLAMINE	Peg4 Triethanolamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 TRIFLUOROPROPYL DIMETHICONE COPOLYMER	Peg4 Trifluoropropyl Dimethicone Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4 TRIMETHYLOLPROPANE DISTEARATE	Peg4 Trimethylolpropane Distearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-4-PPG-7 C13/C15 ALCOHOL	PEG4PPG7 C13/C15 Alcohol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40	PEG40	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40	PEG40	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
PEG-40 ALMOND GLYCERIDES	Peg40 Almond Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 BUTYLOCTANOL WHEAT GERM ESTERS	Peg40 Butyloctanol Wheat Germ Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 CASTOR OIL	PEG40 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 GLYCERYL COCOATE	PEG40 GLYCERYL COCOATE	68201467	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 GLYCERYL ISOSTEARATE	Peg40 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-40 GLYCERYL STEARATE	Peg40 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 GLYCERYL TRIISOSTEARATE	Peg40 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED CASTOR EXTRACT	Peg40 Hydrogenated Castor Extract		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED CASTOR OIL	Peg60 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg40 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-40 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-40 HYDROGENATED CASTOR OIL LAURATE	Peg40 Hydrogenated Castor Oil Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED CASTOR OIL LAURATE	PEG-40 HYDROGENATED CASTOR OIL LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	Peg40 Hydrogenated Castor Oil Pca Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-40 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg40 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-40 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-40 HYDROGENATED LANOLIN	Peg40 Hydrogenated Lanolin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED LANOLIN	PEG-40 HYDROGENATED LANOLIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-40 HYDROGENATED TALLOW AMINE	Peg40 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 HYDROGENATED TALLOW AMINE	PEG-40 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-40 ISOSTEARATE	Peg40 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 JOJOBA ACID	Peg40 Jojoba Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 JOJOBA ALCOHOL	PEG40 JOJOBA ALCOHOL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG85 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG60 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG55 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG50 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-40 LANOLIN	PEG5 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG35 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG30 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG24 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG20 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG150 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG100 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG10 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG40 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 LANOLIN	PEG40 LANOLIN	61790-81-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.25%.	
PEG-40 OLIVE GLYCERIDES	Peg40 Olive Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-40 OLIVE GLYCERIDES	PEG-40 OLIVE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-40 RICINOLEAMIDE	Peg40 Ricinoleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN DIISOSTEARATE	PEG40 SORBITAN DIISOSTEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN GLYCOL	Peg40 Sorbitan Glycol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN LANOLATE	PEG40 SORBITAN LANOLATE	8036779	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN LAURATE	PEG40 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN OLEATE	Peg40 Sorbitan Oleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN OLEATE	PEG-40 SORBITAN OLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-40 SORBITAN PERISOSTEARATE	PEG40 SORBITAN PERISOSTEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN PEROLEATE	Peg40 Sorbitan Peroleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN PEROLEATE	PEG-40 SORBITAN PEROLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-40 SORBITAN STEARATE	PEG40 SORBITAN STEARATE	9005678	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SORBITAN TETRAOLEATE	PEG40 SORBITAN TETRAOLEATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 SOY STEROL	PEG40 SOY STEROL		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 STEARATE	PEG40 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-40 STEARATE	PEG40 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
PEG-40/DODECYL GLYCOL COPOLYMER	Peg40/dodecyl Glycol Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG9M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG90M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG90	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG800	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-400	PEG75	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG65M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG60	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG55	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG500	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG45M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG45	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG40	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG350	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG25M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-400	PEG240	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG23M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG220	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG20M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG20	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG180	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG18	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG160M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG16	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG150	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-400	PEG14	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG135	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG115M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	Polyethylene Glycol	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PegXx	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG400	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400	PEG400	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
PEG-400 DIOLEATE	Peg400 Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-400 LAURATE	Peg400 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-42 BABASSU GLYCERIDES	Peg42 Babassu Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-42 BABASSU GLYCERIDES	PEG-42 BABASSU GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-42 MUSHROOM GLYCERIDES	Peg42 Mushroom Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-42 MUSHROOM GLYCERIDES	PEG-42 MUSHROOM GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-44 CASTOR OIL	Peg44 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-44 CASTOR OIL	PEG-44 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-44 SORBITAN LAURATE	PEG44 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45	PEG45	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45 HYDROGENATED CASTOR OIL	Peg45 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45 HYDROGENATED CASTOR OIL	PEG-45 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-45 PALM KERNEL GLYCERIDES	Peg12 Palm Kernel Glycerides	124046522	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45 PALM KERNEL GLYCERIDES	Peg45 Palm Kernel Glycerides	124046522	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45 PALM KERNEL GLYCERIDES	PEG-45 PALM KERNEL GLYCERIDES	124046-52-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-45 SAFFLOWER GLYCERIDES	Peg45 Safflower Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-45 SAFFLOWER GLYCERIDES	PEG-45 SAFFLOWER GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-45 STEARATE	Peg45 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45 STEARATE PHOSPHATE	Peg45 Stearate Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45/ DODECYL GLYCOL COPOLYMER	Peg22/dodecyl Glycol Copolymer	78336319	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45/ DODECYL GLYCOL COPOLYMER	Peg45/ Dodecyl Glycol Copolymer	78336319	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-450	PEG450		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-450	PEG450		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
PEG-45M	PEG45M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-45M	PEG45M	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
PEG-5 CASTOR OIL	Peg5 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 CASTOR OIL	PEG-5 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 CETETH-10 PHOSPHATE	Peg5 Ceteth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-5 COCAMIDE	Peg7 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCAMIDE	Peg6 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCAMIDE	Peg3 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCAMIDE	Peg20 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCAMIDE	Peg11 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCAMIDE	PEG5 COCAMIDE	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCAMIDE	PEG-5 COCAMIDE	61791-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 COCAMINE	PEG5 COCAMINE	61791148	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCOATE	Peg5 Cocoate	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 COCOMONIUM METHOSULFATE	Peg5 Cocomonium Methosulfate	68989037	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 DEDM HYDANTOIN	Peg5 Dedm Hydantoin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-5 DEDM HYDANTOIN OLEATE	Peg5 Dedm Hydantoin Oleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 DITRIDECYLMONIUM CHLORIDE	Peg5 Ditridecylmonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 ETHYLHEXANOATE	Peg5 Ethylhexanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 GLYCERYL ISOSTEARATE	Peg5 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 GLYCERYL OLEATE	Peg5 Glyceryl Oleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 GLYCERYL SESQUIOLEATE	Peg5 Glyceryl Sesquioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 GLYCERYL STEARATE	Peg5 Glyceryl Stearate	51158088	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 GLYCERYL TRIISOSTEARATE	Peg5 Glyceryl Triisostearate	86846211	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 GLYCERYL TRISTEARATE	Peg5 Glyceryl Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 HYDROGENATED CASTOR OIL	Peg5 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 HYDROGENATED CASTOR OIL	PEG-5 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-5 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg5 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-5 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg5 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-5 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 HYDROGENATED CORN GLYCERIDES	Peg5 Hydrogenated Corn Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 HYDROGENATED CORN GLYCERIDES	PEG-5 HYDROGENATED CORN GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 HYDROGENATED LANOLIN	PEG5 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 HYDROGENATED TALLOW AMINE	Peg5 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 HYDROGENATED TALLOW AMINE	PEG-5 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 ISODECYLOXYPROPYLAMINE	Peg5 Isodecyloxypropylamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg8 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg7 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-5 LANOLATE	Peg6 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg4 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg3 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg20 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg15 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg12 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg10 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLATE	Peg5 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLIN	PEG5 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLINAMIDE	Peg5 Lanolinamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LANOLINAMIDE	PEG-5 LANOLINAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-5 LAURAMIDE	Peg5 Lauramide	26635756	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 LAURAMIDE	PEG-5 LAURAMIDE	26635-75-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 OLEAMIDE	Peg5 Oleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 OLEAMIDE	PEG-5 OLEAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 OLEAMIDE DIOLEATE	Peg5 Oleamide Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 OLEAMINE	Peg5 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 OLEAMINE	PEG-5 OLEAMINE	26635-93-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 OLEAMMONIUM METHOSULFATE	Peg5 Oleammonium Methosulfate	64611810	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 OLEATE	Peg5 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 PENTAERYTHRITYL ETHER	Peg5 Pentaerythrityl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 PHYTOSTEROL	Peg5 Phytosterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-5 RAPESEED STEROL	Peg5 Rapeseed Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SORBITAN ISOSTEARATE	PEG5 SORBITAN ISOSTEARATE	66794589	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SORBITAN OLEATE	Peg5 Sorbitan Oleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SOYA STEROL	Peg5 Soya Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SOYA STEROL	PEG5 SOY STEROL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
PEG-5 SOYAMINE	Peg8 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SOYAMINE	Peg2 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SOYAMINE	Peg15 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SOYAMINE	Peg10 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SOYAMINE	Peg5 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 SOYAMINE	PEG-5 SOYAMINE	61791-24-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-5 STEARAMINE	Peg5 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 STEARAMINE	PEG-5 STEARAMINE	9003-93-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 STEARATE	PEG5 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 STEARYL AMMONIUM CHLORIDE	Peg5 Stearyl Ammonium Chloride	80238024	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 STEARYL AMMONIUM LACTATE	Peg5 Stearyl Ammonium Lactate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 STEARYL STEARATE	Peg5 Stearyl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TALL OIL STEROL	Peg5 Tall Oil Sterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TALLATE	Peg5 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TALLOW AMIDE	Peg5 Tallow Amide	8051614	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TALLOW AMIDE	PEG-5 TALLOW AMIDE	8051-61-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 TALLOW BENZONIUM CHLORIDE	Peg5 Tallow Benzonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-5 TRICAPRYL CITRATE	Peg5 Tricapryl Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TRICETYL CITRATE	Peg5 Tricetyl Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TRILAURYL CITRATE	Peg5 Trilauryl Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TRIMETHYLOLPROPANE TRIMYRISTATE	Peg5 Trimethylolpropane Trimyristate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TRIMYRISTYL CITRATE	Peg5 Trimyrystyl Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TRISTEARYL CITRATE	Peg5 Tristearyl Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TSUBAKIATE GLYCERIDES	Peg5 Tsubakiate Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5 TSUBAKIATE GLYCERIDES	PEG-5 TSUBAKIATE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5 UNDECYLENATE P-HYDROXYBENZOATE	Peg5 Undecylenate PHydroxybenzoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5-CETETH-20	Peg5Ceteth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 CASTOR OIL	Peg50 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-50 CASTOR OIL	PEG-50 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 DISTEARATE	PEG50 DISTEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 GLYCERYL ISOSTEARATE	Peg50 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 GLYCERYL TRIISOSTEARATE	Peg50 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED CASTOR OIL	Peg50 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED CASTOR OIL	PEG-50 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg50 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-50 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 HYDROGENATED CASTOR OIL LAURATE	Peg50 Hydrogenated Castor Oil Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED CASTOR OIL LAURATE	PEG-50 HYDROGENATED CASTOR OIL LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	Peg50 Hydrogenated Castor Oil Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	PEG-50 HYDROGENATED CASTOR OIL SUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-50 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg50 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-50 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 HYDROGENATED PALMAMIDE	Peg50 Hydrogenated Palmamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED PALMAMIDE	PEG-50 HYDROGENATED PALMAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 HYDROGENATED TALLOW AMINE	Peg50 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 HYDROGENATED TALLOW AMINE	PEG-50 HYDROGENATED TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 LANOLIN	PEG50 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 SHEA BUTTER	Peg50 Shea Butter		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 STEARAMIDE	Peg50 Stearamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 STEARAMIDE	PEG-50 STEARAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-50 STEARAMINE	Peg50 Stearamine	9003934	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 STEARAMINE	PEG-50 STEARAMINE	9003-93-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-50 STEARATE	PEG50 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 STEARATE	PEG50 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
PEG-50 TALLOW AMIDE	Peg50 Tallow Amide	68155248	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-50 TALLOW AMIDE	PEG-50 TALLOW AMIDE	68155-24-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-500	PEG500	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-54 CASTOR OIL	Peg54 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-54 CASTOR OIL	PEG-54 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-54 HYDROGENATED CASTOR OIL	Peg54 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-54 HYDROGENATED CASTOR OIL	PEG-54 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-55	PEG55	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-55 CASTOR OIL	Peg55 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-55 CASTOR OIL	PEG-55 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-55 HYDROGENATED CASTOR OIL	Peg55 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-55 HYDROGENATED CASTOR OIL	PEG-55 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-55 LANOLIN	PEG55 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-55 PROPYLENE GLYCOL DIOLEATE	Peg55 Propylene Glycol Dioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-55 PROPYLENE GLYCOL OLEATE	PEG55 PROPYLENE GLYCOL OLEATE	86481085	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-55 PROPYLENE GLYCOL OLEATE	PEG55 PROPYLENE GLYCOL OLEATE	86481-08-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
PEG-55 STEARATE	PEG55 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-58 HYDROGENATED CASTOR OIL ISOSTEARATE	Peg58 Hydrogenated Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-58 HYDROGENATED CASTOR OIL ISOSTEARATE	PEG-58 HYDROGENATED CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-5M	PEG5M		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-5M	PEG5M		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.01%.	
PEG-6	PEG6	2615158	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-6 ALMOND GLYCERIDES	Peg6 Almond Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 ALMOND GLYCERIDES	PEG-6 ALMOND GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 BEESWAX	Peg6 Beeswax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 BUTYLENE GLYCOL LAURATE	Peg6 Butylene Glycol Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 CAPRYLATE/CAPRATE	Peg6 Caprylate/caprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 CAPRYLIC GLYCERIDES	Peg6 Caprylic Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 CAPRYLIC/ CAPRIC GLYCERIDE	Peg6 Caprylic/ Capric Glyceride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 CAPRYLIC/CAPRIC GLYCERIDES	Peg6 Caprylic/capric Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 CAPRYLIC/CAPRIC GLYCERIDES	PEG-6 CAPRYLIC/CAPRIC GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 COCAMIDE	Peg6 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 COCAMIDE	PEG-6 COCAMIDE	61791-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-6 COCAMIDE PHOSPHATE	Peg6 Cocamide Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 DIISOSTEARATE	Peg6 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 DIISOSTEARATE	PEG-6 DIISOSTEARATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 DILAURATE	PEG6 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 DIMETHICONE	Peg6 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 DIMETHICONE	PEG-6 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-6 DIOLEATE	Peg6 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 DIOLEATE	PEG-6 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 DISTEARATE	PEG6 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 ESTERS	Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 GLYCERYL CAPRATE	Peg6 Glyceryl Caprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 GLYCERYL ISOSTEARATE	Peg6 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-6 GLYCERYL TRISTEARATE	Peg6 Glyceryl Tristearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 HYDROGENATED CASTOR OIL	Peg6 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 HYDROGENATED CASTOR OIL	PEG-6 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 HYDROGENATED PALM OIL	Peg6 Hydrogenated Palm Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 HYDROGENATED PALM/PALM KERNEL GLYCERIDE	Peg6 Hydrogenated Palm/palm Kernel Glyceride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 HYDROGENATED PALM/PALM KERNEL GLYCERIDE	PEG-6 HYDROGENATED PALM/PALM KERNEL GLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 HYDROGENATED PALMAMIDE	Peg6 Hydrogenated Palmamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 HYDROGENATED PALMAMIDE	PEG-6 HYDROGENATED PALMAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 ISOLAURYL THIOETHER	Peg6 Isolauryl Thioether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 ISOPALMITATE	Peg6 Isopalmitate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 ISOSTEARATE	Peg8 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-6 ISOSTEARATE	Peg4 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 ISOSTEARATE	Peg12 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 ISOSTEARATE	Peg10 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 ISOSTEARATE	Peg6 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 LANOLATE	Peg6 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 LAURAMIDE	Peg5 Lauramide	26635756	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 LAURAMIDE	Peg3 Lauramide	26635756	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 LAURAMIDE	Peg6 Lauramide	26635756	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 LAURAMIDE	PEG-6 LAURAMIDE	26635-75-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 LAURATE	PEG6 LAURATE	2370641	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 LAURATE	PEG6 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	

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PEG-6 LAURATE/TARTRATE	Peg6 Laurate/tartrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHICONE ACETATE	Peg6 Methicone Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER	METHOXY PEG7	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER	METHOXY PEG40	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER	METHOXY PEG25	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER	METHOXY PEG16	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER	METHOXY PEG100	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER	METHOXY PEG10	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER	PEG6 METHYL ETHER	9004744	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 METHYL ETHER DIMETHICONE	Peg6 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-6 METHYL ETHER DIMETHICONE	PEG-6 METHYL ETHER DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-6 METHYL ETHER DIMETHICONE	PEG-6 METHYL ETHER DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-6 METHYL ETHER DIMETHICONE	PEG-6 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-6 OLEAMIDE	Peg6 Oleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 OLEAMIDE	PEG-6 OLEAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 OLEAMINE	Peg6 Oleamine	26635938	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 OLEAMINE	PEG-6 OLEAMINE	26635-93-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 OLEATE	Peg6 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 OLIVE GLYCERIDES	Peg6 Olive Glycerides	103819461	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 OLIVE GLYCERIDES	PEG-6 OLIVE GLYCERIDES	103819-46-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-6 PALMITATE	Peg6 Palmitate	9004948	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 PROPYLENE GLYCOL CAPRYLATE/CAPRATE	Peg6 Propylene Glycol Caprylate/caprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-6 SORBITAN OLEATE	PEG6 SORBITAN OLEATE	9005656	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 SORBITAN STEARATE	PEG6 SORBITAN STEARATE	9005678	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 SORBITOL	Peg6 Sorbitol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 STEARATE	PEG6 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 STEARATE	PEG6 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
PEG-6 STEARYLGUANIDINE	Peg6 Stearylguanidine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6 UNDECYLENATE	Peg6 Undecylenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6-32	Peg632		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6-32 GLYCERETH-26	Peg632 Glycereth26		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6-32 PROPYLENE GLYCOL	Peg632 Propylene Glycol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6-32 STEARATE	Peg632 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-6-32 STEARATE SE	Peg632 Stearate Se		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60	PEG60	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 ALMOND GLYCERIDES	Peg60 Almond Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 ALMOND GLYCERIDES	PEG-60 ALMOND GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 CASTOR OIL	Peg60 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 CASTOR OIL	PEG-60 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 CASTOR OIL ISOSGTEARATE	Peg60 Castor Oil Isosgtearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 CASTOR OIL ISOSTEARATE	Peg60 Castor Oil Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 CASTOR OIL ISOSTEARATE	PEG-60 CASTOR OIL ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 CORN GLYCERIDES	Peg60 Corn Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 CORN GLYCERIDES	PEG-60 CORN GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 EVENING PRIMROSE GLYCERIDES	Peg60 Evening Primrose Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-60 EVENING PRIMROSE GLYCERIDES	PEG-60 EVENING PRIMROSE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 GLYCERYL ISOSTEARATE	Peg60 Glyceryl Isostearate	68958587	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 GLYCERYL STEARATE	Peg60 Glyceryl Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 GLYCERYL TRIISOSTEARATE	Peg60 Glyceryl Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 HYDROGENATED CASTOR OIL	Peg60 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 HYDROGENATED CASTOR OIL	PEG-60 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 HYDROGENATED CASTOR OIL LAURATE	Peg60 Hydrogenated Castor Oil Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 HYDROGENATED CASTOR OIL LAURATE	PEG-60 HYDROGENATED CASTOR OIL LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	Peg60 Hydrogenated Castor Oil Pca Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 HYDROGENATED CASTOR OIL PCA ISOSTEARATE	PEG-60 HYDROGENATED CASTOR OIL PCA ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 HYDROGENATED CASTOR OIL TRIISOSTEARATE	Peg60 Hydrogenated Castor Oil Triisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 HYDROGENATED CASTOR OIL TRIISOSTEARATE	PEG-60 HYDROGENATED CASTOR OIL TRIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-60 LANOLIN	PEG60 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 LANOLIN	PEG60 LANOLIN	61790-81-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
PEG-60 PASSIFLORA EDULIS SEED GLYCERIDES	Peg60 Passiflora Edulis Seed Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 PASSIFLORA EDULIS SEED GLYCERIDES	PEG-60 PASSIFLORA EDULIS SEED GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 PASSIFLORA INCARNATA SEED GLYCERIDES	Peg60 Passiflora Incarnata Seed Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 PASSIFLORA INCARNATA SEED GLYCERIDES	PEG-60 PASSIFLORA INCARNATA SEED GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 SHEA BUTTER GLYCERIDES	Peg60 Shea Butter Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 SHEA BUTTER GLYCERIDES	PEG-60 SHEA BUTTER GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-60 SORBITAN STEARATE	PEG60 SORBITAN STEARATE	9005678	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 SORBITAN TETRAOLEATE	PEG60 SORBITAN TETRAOLEATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 SORBITAN TETRASTEARATE	PEG60 SORBITAN TETRASTEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60 TSUBAKIATE GLYCERIDES	Peg60 Tsubakiate Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-60 TSUBAKIATE GLYCERIDES	PEG-60 TSUBAKIATE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-600	Peg600		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-60M	Peg60m		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-65 HYDROGENATED CASTOR OIL	Peg65 Hydrogenated Castor Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-65 HYDROGENATED CASTOR OIL	PEG-65 HYDROGENATED CASTOR OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-65 LANOLIN	Peg65 Lanolin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-65M	PEG65M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-66 TRIHYDROXYSTEARIN	Peg66 Trihydroxystearin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-6M	Peg6m		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 AMODIMETHICONE	Peg7 Amodimethicone	133779143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 AMODIMETHICONE	PEG-7 AMODIMETHICONE	133779-14-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

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PEG-7 AVOCADOATE	Peg7 Avocadoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 BETA-NAPHTHOL	Peg7 BetaNaphthol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 CAPRYLIC/CAPRIC GLYCERIDES	Peg7 Caprylic/capric Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 CAPRYLIC/CAPRIC GLYCERIDES	PEG-7 CAPRYLIC/CAPRIC GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-7 COCAMIDE	Peg7 Cocamide	61791080	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 COCAMIDE	PEG-7 COCAMIDE	61791-08-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-7 DIMETHICONE	PEG7 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 DIMETHICONE	PEG-7 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-7 DIMETHICONE C8-C18 ESTER	Peg7 Dimethicone C8C18 Ester		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 DIMETHICONE ISOSTEARATE	Peg7 Dimethicone Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 DIMETHICONE ISOSTEARATE	PEG-7 DIMETHICONE ISOSTEARATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

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PEG-7 ESTERS	Peg7 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 GLYCERIN COCOATE	Peg7 Glycerin Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 GLYCERYL COCOATE	PEG7 GLYCERYL COCOATE	66105291	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 GLYCERYL SOYATE	Peg7 Glyceryl Soyate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 HYDROGENATED CASTOR OIL	Peg7 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 HYDROGENATED CASTOR OIL	PEG-7 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-7 LANOLATE	Peg7 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 METHYL ETHER	PEG7 METHYL ETHER		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 METHYL ETHER DIMETHICONE	Peg7 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 METHYL ETHER DIMETHICONE	PEG-7 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-7 OLEAMIDE	Peg7 Oleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 OLEAMIDE	PEG-7 OLEAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-7 OLEATE	Peg7 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 OLIVATE	Peg7 Olivatate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 OLIVE GLYCERIDES	Peg7 Olive Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 OLIVE GLYCERIDES	PEG-7 OLIVE GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-7 PANTHENYL PHOSPHATE	Peg7 Panthenyl Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 RICINOLEAMIDE	Peg7 Ricinoleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 RICINOLEATE	Peg9 Ricinoleate	9004971	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 RICINOLEATE	Peg8 Ricinoleate	9004971	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 RICINOLEATE	Peg7 Ricinoleate	9004971	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 STEARATE	Peg7 Stearate	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 SUNFLOWER GLYCERIDES	Peg7 Sunflower Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-7 SUNFLOWER GLYCERIDES	PEG-7 SUNFLOWER GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-7 TALLOW AMINE	Peg7 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7 TALLOW AMINE	PEG-7 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-70 HYDROGENATED LANOLIN	PEG70 HYDROGENATED LANOLIN	68648271	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-70 LANOLIN	Peg70 Lanolin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-70 LANOLIN	PEG-70 LANOLIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-70 MANGO GLYCERIDES	Peg70 Mango Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-70 MANGO GLYCERIDES	PEG-70 MANGO GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-7000	Peg7000		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75	PEG75	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 BETA-SITOSTEROL	Peg75 BetaSitosterol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 CASTOR OIL	Peg75 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-75 CASTOR OIL	PEG-75 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-75 COCOA BUTTER	Peg75 Cocoa Butter		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 COCOA BUTTER GLYCERIDE	Peg75 Cocoa Butter Glyceride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 COCOA BUTTER GLYCERIDES	Peg75 Cocoa Butter Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 COCOA BUTTER GLYCERIDES	PEG-75 COCOA BUTTER GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-75 DILAURATE	PEG75 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 DIOLEATE	Peg75 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 DIOLEATE	PEG-75 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-75 DISTEARATE	PEG75 DISTEARATE	9005087	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 LANOLIN	PEG75 LANOLIN	8039096	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 LANOLIN OIL	PEG75 LANOLIN OIL	68648384	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 LANOLIN OIL	PEG75 LANOLIN	68648-38-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	

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PEG-75 LANOLIN WAX	PEG75 LANOLIN WAX		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 LAURATE	PEG75 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 LAURATE	PEG75 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-75 MEADOWFOAM OIL	Peg75 Meadowfoam Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 MEADOWFOAM OIL	PEG-75 MEADOWFOAM OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-75 OLEATE	Peg75 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 PROPYLENE GLYCOL STEARATE	PEG75 PROPYLENE GLYCOL STEARATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 SHEA BUTTER GLYCERIDES	Peg75 Shea Butter Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 SHEA BUTTER GLYCERIDES	PEG-75 SHEA BUTTER GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-75 SHOREA BUTTER GLYCERIDES	Peg75 Shorea Butter Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 SHOREA BUTTER GLYCERIDES	PEG-75 SHOREA BUTTER GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-75 SORBITAN LANOLATE	PEG75 SORBITAN LANOLATE	8051136	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-75 SORBITAN LAURATE	PEG75 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 SOY GLYCERIDES	Peg75 Soy Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 SOY GLYCERIDES	PEG-75 SOY GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-75 STEARATE	PEG75 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-75 STEARYL ETHER DIMER	Peg75 Stearyl Ether Dimer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-76 STEARATE	Peg76 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-78 GLYCERYL COCOATE	PEG78 GLYCERYL COCOATE	68201467	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7M	PEG7M		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-7M	PEG7M		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
PEG-8	PEG8		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 AVOCADOATE	Peg8 Avocadoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-8 BEESWAX	Peg8 Beeswax		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 BEHENATE	Peg8 Behenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 C12-18 ESTER	Peg8 C1218 Ester		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 CAPRATE	Peg8 Caprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 CAPRYLATE	Peg8 Caprylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 CAPRYLATE/ CAPRATE	Peg8 Caprylate/ Caprate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 CAPRYLIC/ CAPRIC GLYCERIDES	Peg8 Caprylic/ Capric Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 CAPRYLIC/ CAPRIC GLYCERIDES	PEG-8 CAPRYLIC/ CAPRIC GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 CASTOR OIL	Peg8 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 CASTOR OIL	PEG-8 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 CETYL DIMETHICONE	Peg8 Cetyl Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-8 CETYL DIMETHICONE	PEG-8 CETYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-8 CETYL DIMETHICONE	PEG-8 CETYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-8 COCOATE	PEG9 COCOATE	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 COCOATE	Peg5 Cocoate	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 COCOATE	PEG15 COCOATE	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 COCOATE	Peg10 Cocoate	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 COCOATE	Peg8 Cocoate	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 CRANBERRIATE	Peg8 Cranberriate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DI/TRIRICINOLEATE	Peg8 Di/triricinoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DICOCOATE	Peg8 Dicocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DICOCOATE	PEG-8 DICOCOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-8 DIISOSTEARATE	Peg8 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIISOSTEARATE	PEG-8 DIISOSTEARATE		he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 DILAURATE	PEG75 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	PEG6 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	PEG4 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	PEG32 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	PEG20 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	Peg16 Dilaurate	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	PEG150 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	PEG12 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DILAURATE	PEG8 DILAURATE	9005021	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-8 DIMETHICONE	PEG9 DIMETHICONE	68937542	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIMETHICONE	PEG8 DIMETHICONE	68937542	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIMETHICONE	PEG-8 DIMETHICONE	68937-54-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-8 DIMETHICONE COPOLYOL	Peg8 Dimethicone Copolyol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIMETHICONE MEADOWFOAMATE	Peg8 Dimethicone Meadowfoamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIMETHICONE/DIMER DILINOLEIC ACID COPOLYMER	Peg8 Dimethicone/dimer Dilinoleic Acid Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIMETHICONE/DIMER DILINOLEIC ACID COPOLYMER	PEG-8 DIMETHICONE/DIMER DILINOLEIC ACID COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-8 DIOLEATE	Peg75 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	Peg6 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	Peg4 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	Peg32 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-8 DIOLEATE	Peg20 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	Peg150 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	Peg12 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	Peg10 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	Peg8 Dioleate	9005076	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DIOLEATE	PEG-8 DIOLEATE	9005-07-6	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 DISTEARATE	PEG8 DISTEARATE	52668970	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DITALLATE	Peg8 Ditallate	61791013	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 DITALLATE	PEG-8 DITALLATE	61791-01-3	he Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 DODECENYLSUCCINATE	Peg8 Dodecenylsuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 ESTERS	Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-8 GLYCERYL ISOSTEARATE	Peg8 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 GLYCERYL LAURATE	Peg8 Glyceryl Laurate	59070563	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 HYDROGENATED CASTOR OIL	Peg8 Hydrogenated Castor Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 HYDROGENATED CASTOR OIL	PEG-8 HYDROGENATED CASTOR OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 HYDROGENATED FISH GLYCERIDE	Peg8 Hydrogenated Fish Glyceride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 HYDROGENATED FISH GLYCERIDES	Peg8 Hydrogenated Fish Glycerides		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 HYDROGENATED FISH GLYCERIDES	PEG-8 HYDROGENATED FISH GLYCERIDES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 ISOLAURYL THIOETHER	Peg8 Isolauryl Thioether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 ISOSTEARATE	Peg8 Isostearate	56002143	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LANOLATE	Peg8 Lanolate	68459507	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG75 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-8 LAURATE	PEG4 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG32 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG20 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG150 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG14 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG12 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG10 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG8 LAURATE	9004813	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LAURATE	PEG8 LAURATE	9004813	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-8 LINOLEATE	Peg8 Linoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 LINOLENATE	Peg8 Linolenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-8 MEADOWFOAMATE	Peg8 Meadowfoamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 METHICONE	Peg8 Methicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 METHICONE	PEG-8 METHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-8 METHICONE	PEG-8 METHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-8 METHYL ETHER DIMETHICONE	Peg8 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 METHYL ETHER DIMETHICONE	PEG-8 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-8 METHYL ETHER TRIETHOXYSILANE	Peg8 Methyl Ether Triethoxysilane		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 MYRISTATE	Peg8 Myristate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 OLEATE	Peg8 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 PALMITOYL METHYL DIETHONIUM METHOSULFATE	Peg8 Palmitoyl Methyl Diethonium Methosulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 PALMITOYL OLIGOPEPTIDE	Peg8 Palmitoyl Oligopeptide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-8 PG-COCO-GLUCOSIDE DIMETHICONE	Peg8 PgCocoGlucoside Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 POLYSORBATE 60	Peg8 Polysorbate 60		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 PPG-3 DIISOSTEARATE	Peg8 Ppg3 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 PROPYLENE GLYCOL	Peg8 Propylene Glycol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 PROPYLENE GLYCOL COCOATE	PEG8 PROPYLENE GLYCOL COCOATE	126645985	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 PROPYLENE GLYCOL COCOATE	PEG8 PROPYLENE GLYCOL COCOATE	126645-98-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
PEG-8 RASPBERRIATE	Peg8 Raspberriate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 RICINOLEATE	Peg8 Ricinoleate	9004971	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 SESQUILAURATE	Peg8 Sesqu Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 SESQUIOLEATE	Peg8 Sesquioleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 SOYAMINE	Peg8 Soyamine	61791240	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-8 SOYAMINE	PEG-8 SOYAMINE	61791-24-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 STEARATE	PEG8 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 STEARATE	PEG8 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
PEG-8 TALLATE	Peg8 Tallate	61791002	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMIDE	Peg8 Tallow Amide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMIDE	PEG-8 TALLOW AMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 TALLOW AMINE	Peg7 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg50 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg5 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg40 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg30 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-8 TALLOW AMINE	Peg30 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg25 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg22 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg20 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg20 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg2 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg15 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg15 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg11 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	Peg10 Hydrogenated Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-8 TALLOW AMINE	Peg8 Tallow Amine	61791262	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TALLOW AMINE	PEG-8 TALLOW AMINE	61791-26-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-8 TOCOPHEROL	Peg8 Tocopherol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 TOCOPHEROL	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG-8 TRIFLUOROPROPYL DIMETHICONE COPOLYMER	Peg8 Trifluoropropyl Dimethicone Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8 UNDECYLENATE	Peg8 Undecylenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8-CETETH-20	Peg8Ceteth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8/ SMDI COPOLYMER	Peg8/ Smdi Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-8/PPG-2 DIISOSTEARATE	Peg8/ppg2 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80	PEG80		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 CASTOR OIL	Peg80 Castor Oil	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 CASTOR OIL	PEG-80 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PEG-80 GLYCERYL COCOATE	PEG78 GLYCERYL COCOATE	68201467	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 GLYCERYL COCOATE	PEG40 GLYCERYL COCOATE	68201467	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 GLYCERYL COCOATE	PEG30 GLYCERYL COCOATE	68201467	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 GLYCERYL COCOATE	PEG80 GLYCERYL COCOATE	68201467	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 GLYCERYL TALLOWATE	Peg80 Glyceryl Tallowate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 HYDROGENATED CASTOR OIL	Peg80 Hydrogenated Castor Oil	61788850	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 HYDROGENATED CASTOR OIL	PEG-80 HYDROGENATED CASTOR OIL	61788-85-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-80 HYDROGENATED GLYCERYL PALMATE	Peg80 Hydrogenated Glyceryl Palmate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 JOJOBA ALCOHOL	Peg80 Jojoba Alcohol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 METHYL GLUCOSE LAURATE	PEG80 methyl glucose laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 SORBITAN LAURATE	PEG75 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-80 SORBITAN LAURATE	PEG44 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 SORBITAN LAURATE	PEG40 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 SORBITAN LAURATE	PEG10 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 SORBITAN LAURATE	POLYSORBATE20	9005645	The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4-dioxane cannot exceed 1 ppm in the final product.	
PEG-80 SORBITAN LAURATE	PEG80 SORBITAN LAURATE	9005645	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 SORBITAN LAURATE SULFATE	Peg80 Sorbitan Laurate Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-80 SORBITAN PALMITATE	PEG80 SORBITAN PALMITATE	9005667	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-800	PEG800	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-800/POLYVINYL ALCOHOL COPOLYMER	Peg800/polyvinyl Alcohol Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-82 GLYCERYL TALLOWATE	Peg82 Glyceryl Tallowate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-85 LANOLIN	PEG85 LANOLIN	61790816	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9	PEG9	3386183	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9	PEG9	3386-18-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.9%.	
PEG-9 AVOCADOATE	Peg9 Avocadoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 BORAGEATE	Peg9 Borageate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 BUTYLENE GLYCOL LAURATE	Peg9 Butylene Glycol Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 BUTYLOCTANOATE	Peg9 Butyloctanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 CASTOR OIL	PEG9 CASTOR OIL	61791126	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 CASTOR OIL	PEG-9 CASTOR OIL	61791-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-9 COCAMIDE MEA	Peg9 Cocamide Mea		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 COCOATE	PEG9 COCOATE	61791295	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-9 COCOGLYCERIDES	Peg9 Cocoglycerides	67762350	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 COCOGLYCERIDES	PEG-9 COCOGLYCERIDES	67762-35-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-9 DIETHYLMONIUM CHLORIDE	Peg9 Diethylmonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 DIMETHACRYLATE	Peg9 Dimethacrylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 DIMETHICONE	PEG9 DIMETHICONE	68937542	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 DIMETHICONE	PEG-9 DIMETHICONE	68937-54-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-9 DISTEARATE	PEG9 DISTEARATE	109342	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 GLYCERYL ISOSTEARATE	Peg9 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 GRAPESEEDATE	Peg9 Grapeseedate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 ISOSTEARATE	Peg9 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 LAURATE	PEG9 LAURATE	106081	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-9 LAURATE	PEG9 LAURATE	106081	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
PEG-9 METHYL ETHER DIMETHICONE	Peg9 Methyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 METHYL ETHER DIMETHICONE	PEG-9 METHYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-9 OCTYLDODECANOATE	Peg9 Octyldodecanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 OLEAMIDE	Peg9 Oleamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 OLEAMIDE	PEG-9 OLEAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-9 OLEATE	Peg9 Oleate	9004960	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 OLIVEATE	Peg9 Oliveate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE	Peg9 Polydimethylsiloxylethyl Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE	PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE	PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG-9 RICINOLEATE	Peg9 Ricinoleate	9004971	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PEG-9 SOYATE	Peg9 Soyate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 STEARAMIDE CARBOXYLIC ACID	Peg9 Stearamide Carboxylic Acid	90453591	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-9 STEARATE	Peg9 Stearate	5349520	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-90	PEG90	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-90	PEG90	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 21%.	
PEG-90 DIISOSTEARATE	Peg90 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-90 DIISOSTEARATE	PEG-90 DIISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PEG-90 GLYCERYL ISOSTEARATE	Peg90 Glyceryl Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-90 STEARATE	PEG90 STEARATE	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-90/POLYEPSILON CAPROLACTONE	PEG90/POLYEPSILON CAPROLACTONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-90/POLYEPSILON CAPROLACTONE	PEG90/POLYEPSILON CAPROLACTONE		The European Commission restricts this substance as traces in ingredients and cannot exceed a concentration of 0.1%.	
PEG-90M	PEG90M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG-90M	PEG90M	25322-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
PEG-9M	PEG9M	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-CROSSPOLYMER	PegCrosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-LYCEROL COCOATE	PegLycerol Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-STEARATES	PegStearates	9004993	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG-STEARATES	PEG2 STEARATE	9004-99-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
PEG-XX	PegXx	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PEG-20/ 20 DIMETHICONE	Peg/ Peg20/ 20 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg8/17 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg7/50 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg6/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg5/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg4/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg35/9 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg32/3 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg300/55 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg30/33 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg30/160 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg26/31 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg25/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg23/50 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg23/17 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg200/70 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg18/4 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg160/31 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg150/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg125/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg10/70 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg10/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ppg1/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ Ppg240/ 60 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/ PPG 116/ 66 COPOLYMER	Peg/ Ppg 38/ 8 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 116/ 66 COPOLYMER	Peg/ Ppg 116/ 66 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	Peg/ppg24/18 Butyl Ether Dimethicone	67762872	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	Peg/ Ppg 20/ 22 Butyl Ether Dimethicone	67762872	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	67762-87-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	67762-87-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	PEG/ PPG 20/ 22 BUTYL ETHER DIMETHICONE	67762-87-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/ PPG 38/ 8 COPOLYMER	Peg/ Ppg 38/ 8 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 4/ 12 DIMETHICONE	Peg/ Ppg 4/ 12 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG 4/ 12 DIMETHICONE	PEG/ PPG 4/ 12 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG 8/ 3 LAURATE	Peg/ Ppg 8/ 3 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/ PPG-10/ 2 RICINOLEATE	Peg/ Ppg10/ 2 Ricinoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-14/ 4 DIMETHICONE	Peg/ Ppg14/ 4 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-14/ 4 DIMETHICONE	PEG/ PPG-14/ 4 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG-15/ 15 DIMETHICONE	Peg/ Ppg15/ 15 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-15/ 15 DIMETHICONE	PEG/ PPG-15/ 15 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG-17/ 18 DIMETHICONE	Peg/ Ppg17/ 18 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-17/ 18 DIMETHICONE	PEG/ PPG-17/ 18 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG-17/ 6 COPOLYMER	Peg/ Ppg17/ 6 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-18/ 18 DIMETHICONE	Peg/ Ppg18/ 18 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-18/ 18 DIMETHICONE	PEG/ PPG-18/ 18 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/ PPG-18/ 8 DIMETHICONE	Peg/ Ppg18/ 8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-20/ 15 DIMETHICONE	Peg/ Ppg20/ 15 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-20/ 15 DIMETHICONE	PEG/ PPG-20/ 15 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG-20/ 23 BENZOATE	Peg/ Ppg20/ 23 Benzoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-20/ 6 DIMETHICONE	Peg/ Ppg20/ 6 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-20/ 6 DIMETHICONE	PEG/ PPG-20/ 6 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG-22/ 24 DIMETHICONE	Peg/ Ppg22/ 24 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-22/ 24 DIMETHICONE	PEG/ PPG-22/ 24 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/ PPG-240/ 60 COPOLYMER	Peg/ Ppg240/ 60 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/ PPG-25/ 25 DIMETHICONE/ ACRYLATES COPOLYMER	Peg/ Ppg25/ 25 Dimethicone/ Acrylates Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/ PPG-8/ 3 DIISOSTEARATE	Peg/ Ppg8/ 3 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-1/2 COPOLYMER	Peg/ppg1/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-1/25 DIETHYLMONIUM CHLORIDE	Peg/ppg1/25 Diethylmonium Chloride		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-10/2 COPOLYMER	Peg/ppg10/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-10/2 DIMETHICONE	Peg/ppg10/2 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-10/2 DIMETHICONE	PEG/PPG-10/2 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-10/2 DIRICINOLEATE	Peg/ppg10/2 Diricinoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-10/3 OLEYL ETHER DIMETHICONE	Peg/ppg10/3 Oleyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-10/3 OLEYL ETHER DIMETHICONE	PEG/PPG-10/3 OLEYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-10/30 COPOLYMER	Peg/ppg10/30 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-10/65 COPOLYMER	Peg/ppg10/65 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-10/70 COPOLYMER	Peg/ppg10/70 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-100/70 TOCOPHERYL ETHER	Peg/ppg100/70 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-100/70 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG/PPG-12/16 DIMETHICONE	Peg/ppg12/16 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-12/16 DIMETHICONE	PEG/PPG-12/16 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-12/18 DIMETHICONE	Peg/ppg12/18 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-12/18 DIMETHICONE	PEG/PPG-12/18 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-12/35 COPOLYMER	Peg/ppg12/35 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-125/30 COPOLYMER	Peg/ppg125/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-14/7 DIMETHYL ETHER	PEG/PPG9/2 Dimethyl Ether	61419463	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-14/7 DIMETHYL ETHER	PEG/PPG3/6 Dimethyl Ether	61419463	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-14/7 DIMETHYL ETHER	PEG/PPG14/7 Dimethyl Ether	61419463	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-150/30 COPOLYMER	Peg/ppg150/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-150/35 COPOLYMER	Peg/ppg150/35 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-16/17 COPOLYMER	Peg/ppg16/17 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-16/2 DIMETHICONE	PEG/PPG16/2 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-16/8 DIMETHICONE	Peg/ppg16/8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-16/8 DIMETHICONE	PEG/PPG-16/8 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-160/30 COPOLYMER	Peg/ppg160/30 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-160/31 COPOLYMER	Peg/ppg160/31 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-17/4 DIMETHYL ETHER	PEG/PPG17/4 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-18/18 ISOSTEARATE	Peg/ppg18/18 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-18/18 LAURATE	Peg/ppg18/18 Laurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-18/4 COPOLYMER	Peg/ppg18/4 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-19/19 DIMETHICONE	PEG/PPG19/19 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-19/19 DIMETHICONE	PEG/PPG-19/19 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/PPG-19/21 COPOLYMER	Peg/ppg19/21 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-190/60 COPOLYMER	Peg/ppg190/60 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-2/5 TOCOPHERYL ETHER	Peg/ppg2/5 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-2/5 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG/PPG-20/20 COPOLYMER	Peg/ppg20/20 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-20/20 DIMETHICONE	PEG/PPG20/20 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-20/20 DIMETHICONE	PEG/PPG-20/20 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/PPG-20/22 METHYL ETHER DIMETHICONE	Peg/ppg20/22 Methyl Ether Dimethicone	125857752	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-20/22 METHYL ETHER DIMETHICONE	PEG/PPG-20/22 METHYL ETHER DIMETHICONE	125857-75-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-20/23 DIMETHICONE	PEG/PPG20/23 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-20/23 DIMETHICONE	PEG/PPG-20/23 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/PPG-20/29 DIMETHICONE	PEG/PPG20/29 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-20/60 COPOLYMER	Peg/ppg20/60 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-20/65 COPOLYMER	Peg/ppg20/65 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-20/9 COPOLYMER	Peg/ppg20/9 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-200/40 COPOLYMER	Peg/ppg200/40 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-200/70 COPOLYMER	Peg/ppg200/70 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-22/22 BUTYL ETHER DIMETHICONE	Peg/ppg22/22 Butyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-22/22 BUTYL ETHER DIMETHICONE	PEG/PPG-22/22 BUTYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-22/23 BUTYL ETHER DIMETHICONE	Peg/ppg22/23 Butyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-22/23 DIMETHICONE	PEG/PPG22/23 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-22/25 COPOLYMER	Peg/ppg22/25 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-22/40 DIMETHYL ETHER	PEG/PPG22/40 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-23/17 COPOLYMER	Peg/ppg23/17 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-23/23 BUTYL ETHER DIMETHICONE	Peg/ppg23/23 Butyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-23/23 BUTYL ETHER DIMETHICONE	PEG/PPG-23/23 BUTYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-23/50 COPOLYMER	Peg/ppg23/50 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-23/6 DIMETHICONE	PEG/PPG23/6 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-24/18 BUTYL ETHER DIMETHICONE	Peg/ppg24/18 Butyl Ether Dimethicone	67762872	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-24/18 BUTYL ETHER DIMETHICONE	PEG/PPG-24/18 BUTYL ETHER DIMETHICONE	67762-87-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-24/24 METHYL ETHER GLYCIDOXOXY DIMETHICONE	Peg/ppg24/24 Methyl Ether Glycidoxo Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-25/25 DIMETHICONE	PEG/PPG25/25 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-25/25 DIMETHICONE	PEG/PPG-25/25 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/PPG-25/30 COPOLYMER	Peg/ppg25/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-26/31 COPOLYMER	Peg/ppg26/31 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-27/14 DIMETHYL ETHER	PEG/PPG27/14 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-27/27 DIMETHICONE	PEG/PPG27/27 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-27/27 DIMETHICONE	PEG/PPG-27/27 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PEG/PPG-27/9 BUTYL ETHER DIMETHICONE	Peg/ppg27/9 Butyl Ether Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-27/9 BUTYL ETHER DIMETHICONE	PEG/PPG-27/9 BUTYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-28/21 ACETATE DIMETHICONE	Peg/ppg28/21 Acetate Dimethicone	68037649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-28/30 COPOLYMER	Peg/ppg28/30 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-3/1 OLIVE OIL ESTERS	Peg/ppg3/1 Olive Oil Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-3/10 DIMETHICONE	PEG/PPG3/10 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-3/17 COPOLYMER	Peg/ppg3/17 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-3/6 DIMETHYL ETHER	PEG/PPG3/6 Dimethyl Ether	61419463	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-30/10 DIMETHICONE	Peg/ppg30/10 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-30/10 DIMETHICONE	PEG/PPG-30/10 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-30/10 TOCOPHERYL ETHER	Peg/ppg30/10 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-30/10 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG/PPG-30/160 COPOLYMER	Peg/ppg30/160 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-30/33 COPOLYMER	Peg/ppg30/33 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-30/35 COPOLYMER	Peg/ppg30/35 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-30/55 COPOLYMER	Peg/ppg30/55 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-300/55 COPLOYMER	Peg/ppg300/55 Coploymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-300/55 COPOLYMER	Peg/ppg300/55 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-32/3 COPOLYMER	Peg/ppg32/3 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-32/3 DIRICINOLEATE	Peg/ppg32/3 Diricinoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-32/3 RICINOLEATE	Peg/ppg32/3 Ricinoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-35/40 COPOLYMER	Peg/ppg35/40 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-35/40 DIMETHYL ETHER	PEG/PPG35/40 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-35/9 COPOLYMER	Peg/ppg35/9 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-36/41 DIMETHYL ETHER	PEG/PPG36/41 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-4/2 COPOLYMER	Peg/ppg4/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-5/10 TOCOPHERYL ETHER	Peg/ppg5/10 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-5/10 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG/PPG-5/20 TOCOPHERYL ETHER	Peg/ppg5/20 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-5/20 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG/PPG-5/3 TRISILOXANE	Peg/ppg5/3 Trisiloxane		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-5/30 COPOLYMER	Peg/ppg5/30 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-5/30 TOCOPHERYL ETHER	Peg/ppg5/30 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-5/30 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG/PPG-5/35 COPOLYMER	Peg/ppg5/35 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-50/20 TOCOPHERYL ETHER	Peg/ppg50/20 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-50/20 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-50/40 COPOLYMER	Peg/ppg50/40 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-50/40 DIMETHYL ETHER	PEG/PPG50/40 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-55/28 DIMETHYL ETHER	PEG/PPG55/28 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-6/11 DIMETHICONE	PEG/PPG6/11 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-6/2 COPOLYMER	Peg/ppg6/2 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-7/12 DIMETHYL ETHER	PEG/PPG7/12 Dimethyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-7/50 COPOLYMER	Peg/ppg7/50 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-70/30 TOCOPHERYL ETHER	Peg/ppg70/30 Tocopheryl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-70/30 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PEG/PPG-8/13 DIISOSTEARATE	Peg/ppg8/13 Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-8/14 DIMETHICONE	PEG/PPG8/14 DIMETHICONE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PEG/PPG-8/17 COPOLYMER	Peg/ppg8/17 Copolymer	9003116	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-8/26 DIMETHICONE	Peg/ppg8/26 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-8/26 DIMETHICONE	PEG/PPG-8/26 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PEG/PPG-8/55 COPOLYMER	Peg/ppg8/55 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG-9/2 DIMETHYL ETHER	PEG/PPG9/2 Dimethyl Ether	61419463	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG/BUTYLENE/DIMETHICONE COPOLYMER	Peg/ppg/butylene/dimethicone Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN	Peg/ppg/polybutylene Glycol8/5/3 Glycerin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEGLICOL 5 OLEATE	Peglicol 5 Oleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PEGOXOL 7 STEARATE	Pegoxol 7 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PELVETIA CANALICULATA (CHANNELLED WRACK) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
PELVETIA CANALICULATA (CHANNELLED WRACK) EXTRACT	PELVETIA CANALICULATA (CHANNELLED WRACK) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PENTADECALACTONE	Cyclopentadecanolide	106025	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.16% in lip products, 0.2% in deodorants/antiperspirants, 0.83% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 2.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 1.31% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 3.93% in mouthwashes, breath sprays, and toothpastes, 0.42% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
PENTADECALACTONE	Cyclopentadecanolide	106025	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.42 % Category 2) 0.13 % Category 3) 2.5 % Category 4) 2.4 % Category 5A) 0.60 % Category 5B) 0.60 % Category 5C) 0.60 % Category 5D) 0.20 % Category 6) 1.4 % Category 7A) 4.8 % Category 7B) 4.8 % Category 8) 0.20 % Category 9) 4.6 % Category 10A) 4.6 % Category 10B) 17 % Category 11A) 0.20 % Category 11B) 0.20 % Category 12) No Restriction	
PENTADOXYNOL-200	Pentadoxynol200	40160-92-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PENTAERYTHRITYL TETRA-DI-T-BUTYL HYDROXYHYDROCINNAMATE	PENTAERYTHRITYL TETRA-DI-T-BUTYL HYDROXYHYDROCINNAMATE	6683-19-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PENTAERYTHRITYL TETRABEHENATE	PENTAERYTHRITYL TETRABEHENATE	61682-73-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
PENTAERYTHRITYL TETRABEHENATE/BENZOATE/ETHYLHEXANOATE	PENTAERYTHRITYL TETRABEHENATE/BENZOATE/ETHYLHEXANOATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 16%.	
PENTAERYTHRITYL TETRACAPRYLATE/TETRACAPRATE	PENTAERYTHRITYL TETRACAPRYLATE/TETRACAPRATE	68441-68-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
PENTAERYTHRITYL TETRAETHYLHEXANOATE	PENTAERYTHRITYL TETRAETHYLHEXANOATE	7299-99-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PENTAERYTHRITYL TETRAETHYLHEXANOATE/BENZOATE	PENTAERYTHRITYL TETRAETHYLHEXANOATE/BENZOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PENTAERYTHRITYL TETRALAURATE	PENTAERYTHRITYL TETRALAURATE	13057-50-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PENTAERYTHRITYL TETRASTEARATE	PENTAERYTHRITYL TETRASTEARATE	115-83-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PENTAMETHYL-CYCLOPENT-1-ENYL METHYL KETONE	1(2,4,4,5,5Pentamethylcyclopentenyl)ethanone	13144882	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.15% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.45% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.24% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.72% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
PENTAMETHYL-CYCLOPENT-1-ENYL METHYL KETONE	1(2,4,4,5,5Pentamethylcyclopentenyl)ethanone	13144882	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077 % Category 2) 0.023 % Category 3) 0.46 % Category 4) 0.43 % Category 5A) 0.11 % Category 5B) 0.11 % Category 5C) 0.11 % Category 5D) 0.11 % Category 6) 0.25 % Category 7A) 0.88 % Category 7B) 0.88 % Category 8) 0.045 % Category 9) 0.84 % Category 10A) 3.0 % Category 10B) 3.0 % Category 11A) 1.7 % Category 11B) 1.7 % Category 12) No Restriction	
PENTAMETHYLCYCLOPENT-3-ENE-BUTANOL	5(2,2,3Trimethyl3cyclopentenyl)3methylpentanol	65113997	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.21 % Category 2) 0.062 % Category 3) 1.2 % Category 4) 1.2 % Category 5A) 0.29 % Category 5B) 0.29 % Category 5C) 0.29 % Category 5D) 0.29 % Category 6) 0.68 % Category 7A) 2.4 % Category 7B) 2.4 % Category 8) 0.12 % Category 9) 2.3 % Category 10A) 8.1 % Category 10B) 8.1 % Category 11A) 4.5 % Category 11B) 4.5 % Category 12) No Restriction	
PENTAPEPTIDE-48	Pentapeptide48		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.002%	
Pentasodium DTPA	PENTASODIUM PENTETATE	140-01-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
PENTETIC ACID	PENTETIC ACID	67-43-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.03%.	
PENTYL DIMETHYL PABA	AMYLDPDIMETHYLAMINO BENZOATE	14779-78-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
PENTYL DIMETHYL PABA	AMYLDPDIMETHYLAMINO BENZOATE	14779-78-3	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
PENTYL DIMETHYL PABA	AMYLDPDIMETHYLAMINO BENZOATE	14779-78-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
PERCHLORIC ACID, CHROMIUM(3+) SALT	Chromium Compounds	13537-21-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PERCHLORIC ACID, NICKEL(2+) SALT, HEXAHYDRATE	Nickel Compounds	13520-61-1	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PERFLUORONONYL DIMETHICONE	PERFLUORONONYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PERFLUORONONYLETHYL CARBOXYDECYL LAURYL DIMETHICONE	PERFLUORONONYLETHYL CARBOXYDECYL LAURYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PERFLUORONONYLETHYL CARBOXYDECYL PEG-10 DIMETHICONE	Perfluorononylethyl Carboxydecyl Peg10 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PERFLUORONONYLETHYL CARBOXYDECYL PEG-8 DIMETHICONE	Perfluorononylethyl Carboxydecyl Peg8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PERFLUORONONYLETHYL PEG-8 DIMETHICONE	Perfluorononylethyl Peg8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PERFLUORONONYLETHYL STEARYL DIMETHICONE	PERFLUORONONYLETHYL STEARYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PERHYDROL UREA	PERHYDROL UREA	124436	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. Concentration of H2O2 present or	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PERHYDROL UREA	CARBAMIDEUREAPEROXIDE	124436	Health Canada requires manufacturers of oral products containing peroxides or peroxidegenerating compounds to submit the following information: data on the pH of the cosmetic product, when it is applied to the tooth or teeth, i.e. that the pH is greater than or equal to 4.0; product labelling demonstrating that all cautionary statement requirements have been met. If an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit safety evidence that the product does not cause the saliva or soft tissue of the oral cavity to exceed 3% hydrogen peroxide, and is safe when used as directed. Required Warning: Health Canada requires the following warning text on the package/label of oral products: 'If irritation (such as redness, swelling, soreness) of the gums or the mouth occurs, discontinue use and consult a dentist'; 'Products containing peroxides are not recommended for use by children under 12 years of age'; 'Use for periods of longer than 14 days is to be only under the supervision of a dentist'; 'Avoid swallowing the cosmetic or part thereof'; 'Avoid contact of the product with the eye'; 'Avoid direct contact of the active surface of the tooth whitening product with the gums and/or salivary flow.'	
PERHYDROL UREA	UREACARBAMIDEPEROXIDE	124436	Health Canada requires manufacturers of oral products containing peroxides or peroxidegenerating compounds to submit the following information: data on the pH of the cosmetic product, when it is applied to the tooth or teeth, i.e. that the pH is greater than or equal to 4.0; product labelling demonstrating that all cautionary statement requirements have been met. If an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit safety evidence that the product does not cause the saliva or soft tissue of the oral cavity to exceed 3% hydrogen peroxide, and is safe when used as directed. Required Warning: Health Canada requires the following warning text on the package/label of oral products: 'If irritation (such as redness, swelling, soreness) of the gums or the mouth occurs, discontinue use and consult a dentist'; 'Products containing peroxides are not recommended for use by children under 12 years of age'; 'Use for periods of longer than 14 days is to be only under the supervision of a dentist'; 'Avoid swallowing the cosmetic or part thereof'; 'Avoid contact of the product with the eye'; 'Avoid direct contact of the active surface of the tooth whitening product with the gums and/or salivary flow.'	
PERHYDROL UREA	PERHYDROL UREA	124-43-6	According to Section 13 of Canada's Cosmetic Regulations the pH of oral products containing this ingredient must be greater than or equal to 4.0. Additionally, if an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit a clinical study to demonstrate the salivary peroxide levels do not exceed 3% during the use of the product as per the directions of use.	x
PERILLALDEHYDE	PERILLALDEHYDE	2111753	The European Commission restricts this ingredient to a maximum concentration of 0.1% in nonoral products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PERILLALDEHYDE	pMentha1,8dien7al (Perilla aldehyde)	2111753	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.5% in mouthwashes, breath sprays, and toothpastes, 0.05% in intimate wipes, and baby wipes, 0.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
PERILLALDEHYDE	Perilla aldehyde	2111753	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.054 % Category 2) 0.016 % Category 3) 0.32 % Category 4) 0.30 % Category 5A) 0.076 % Category 5B) 0.076 % Category 5C) 0.076 % Category 5D) 0.076 % Category 6) 0.18 % Category 7A) 0.61 % Category 7B) 0.61 % Category 8) 0.032 % Category 9) 0.59 % Category 10A) 2.1 % Category 10B) 2.1 % Category 11A) 1.2 % Category 11B) 1.2 % Category 12) No Restriction	
PERSEA GRATISSIMA (AVOCADO) BUTTER	PERSEA GRATISSIMA (AVOCADO) BUTTER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PERSEA GRATISSIMA (AVOCADO) OIL UNSAPONIFIABLES	PERSEA GRATISSIMA (AVOCADO) OIL UNSAPONIFIABLES	91770-40-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
PERSEA GRATISSIMA (AVOCADO) OIL, HYDROGENATED	HYDROGENATED AVOCADO OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
PETROLATUM	PETROLATUM	8009038	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 3% and PAH levels must be below 10 ppb. Mineral waxes must have an average molecular weight of at least 500 Daltons and a viscosity value greater than or equal to 11 centistokes at 100oC or greater than or equal to 8 centistokes at 120oC. Additionally, no more than 5% of hydrocarbons with a chain length less than C25 may be present.	
PETROLATUM	PETROLATUM		The European Commission bans this ingredient from use in cosmetics unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	x
PETROLEUM DISTILLATES	Petroleum Distillates	8052413	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
PETROLEUM DISTILLATES, CLAY-TREATED HEAVY NAPHTHENIC	PETROLEUM DISTILLATES, CLAYTREATED HEAVY NAPHTHENIC	64742445	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
PETROLEUM DISTILLATES, CLAY-TREATED LIGHT NAPHTHENIC	PETROLEUM DISTILLATES, CLAYTREATED LIGHT NAPHTHENIC	64742456	The European Commission bans this ingredient from use in cosmetics if it contains over 3% w/w DMSO extract	
PETROLEUM GASES, LIQUEFIED	Petroleum gases, liquefied	68476857	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PETROLEUM GASES, LIQUEFIED, SWEETENED	Petroleum gases, liquefied, sweetened	68476868	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
PETROLEUM GASES, LIQUEFIED, SWEETENED, C4 FRACTION	PETROLEUM GASES, LIQUEFIED, SWEETENED, C4 FRACTION	92045802	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
PETROLEUM NAPHTHA	PETROLEUM NAPHTHA	8030306	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
PETROLEUM PRODUCTS, HYDROFINER-POWERFORMER REFORMATES	Petroleum products, hydrofinerpowerformer reformates	68514794	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
PETROLEUM PRODUCTS, REFINERY GASES	Petroleum products, refinery gases	68607114	The European Commission bans this ingredient from use in cosmetics if it contains over 0.1% w/w Butadiene	
PFAFFIA PANICULATA (SUMA) EXTRACT	Brazil Ginseng		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PHAEOPHYCEA SEAWEED EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
PHANTOLIDE	ACETYL HEXAMETHYL INDAN	15323350	The European Commission restricts this ingredient to a maximum concentration of 2% in leaveon products.	
PHANTOLIDE	5Acetyl,1,2,3,3,6hexamethyl indan (AHMI)	15323350	The International Fragrance Association restricts this ingredient to a maximum concentration of 2% in leaveon products	
PHANTOLIDE	Acetyl hexamethyl indan (AHMI)	15323350	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.0 % Category 2) 2.0 % Category 3) 2.0 % Category 4) 2.0 % Category 5A) 2.0 % Category 5B) 2.0 % Category 5C) 2.0 % Category 5D) 2.0 % Category 6) 2.0 % Category 7A) No Restriction Category 7B) 2.0 % Category 8) 2.0 % Category 9) No Restriction Category 10A) No Restriction Category 10B) 2.0 % Category 11A) No Restriction Category 11B) 2.0 % Category 12) No Restriction	
PHASEOLUS ANGULARIS SEED STARCH	PHASEOLUS ANGULARIS SEED STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PHASEOLUS RADIATUS SEED STARCH	PHASEOLUS RADIATUS SEED STARCH		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PHENETHYL ALCOHOL	PHENETHYL ALCOHOL	60-12-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
PHENETHYL DIMETHICONE	PHENETHYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PHENOL	Phenol	108-95-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1%.	
PHENOL, DODECYL-, MIXED ISOMERS	PHENOL, DODECYL-, MIXED ISOMERS	27193-86-8	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
PHENOL, P-NITRO-, ALUMINUM SALT	Aluminum Compounds	64047-79-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PHENOL, P-NITRO-, CHROMIUM(3+) SALT	Chromium Compounds	113502-63-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PHENOL, POLYMER WITH FORMALDEHYDE	Phenol Formaldehyde Resin	9003354	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PHENOLS, AMMONIA LIQUOR EXT.	PHENOLS, AMMONIA LIQUOR EXT.	84988932	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
PHENOLS, C9-11	PHENOLS, C911	91079479	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
PHENONIP	Phenoxyethanol		The Cosmetic Ingredient Review has determined that Phenoxyethanol (a component of several branded preservatives) is safe as used up to a concentration of 1%.	
PHENONIP	Methylparaben	99763	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
PHENONIP	Propylparaben	94133	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
PHENONIP	Ethylparaben	120478	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% if used alone and 0.8% when used with a paraben mixture.	
PHENONIP	Phenoxyethanol		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1%.	
PHENOXYETHANOL	Phenoxyethanol	122-99-6	The Cosmetic Ingredient Review has determined that Phenoxyethanol (a component of several branded preservatives) is safe as used up to a concentration of 1%.	
PHENOXYETHANOL	Phenoxyethanol	122-99-6	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1%.	
PHENOXYETHANOL	PHENOXYETHANOL	122-99-6	Per COSING, the maximum concentration in RTU preparation is 1.0%.	x
PHENOXYISOPROPANOL	Phenoxyisopropanol	770354	The European Commission restricts this ingredient to a maximum concentration of 2% in rinseoff products. The substance cannot be used in oral products.	
PHENOXYISOPROPANOL	1Phenoxypropan2ol (8)	770354	(*) The European Commission restricts this ingredient to a maximum concentration of 1.00% in rinseoff products.	
PHENYL BENZOATE	Benzoate	93-99-2	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
PHENYL DIMETHICONE	PHENYL DIMETHICONE	9005-12-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PHENYL METHICONE	PHENYL METHICONE	31230-04-3	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PHENYL METHYL PYRAZOLONE	PHENYL METHYL PYRAZOLONE	89258	The European Commission restricts this ingredient to a maximum concentration of 0.25% applied to hair after mixing under oxidative conditions in oxidative hair dye products. Required Warning: The European Commission requires the following on the product label/package: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PHENYL METHYL PYRAZOLONE	PHENYL METHYL PYRAZOLONE	89-25-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
PHENYL SALICYLATE	PHENYLSALICYLATE	118-55-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1%.	
PHENYLACETALDEHYDE	PHENYLACETALDEHYDE	122781	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.02% in deodorants/antiperspirants, 0.09% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.4% in mouthwashes, breath sprays, and toothpastes, 0.04% in intimate wipes, and baby wipes, 0.6% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 3% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
PHENYLACETALDEHYDE	PHENYLACETALDEHYDE	122781	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.045 % Category 2) 0.014 % Category 3) 0.27 % Category 4) 0.25 % Category 5A) 0.064 % Category 5B) 0.064 % Category 5C) 0.064 % Category 5D) 0.021 % Category 6) 0.15 % Category 7A) 0.52 % Category 7B) 0.52 % Category 8) 0.021 % Category 9) 0.49 % Category 10A) 0.49 % Category 10B) 1.8 % Category 11A) 0.021 % Category 11B) 0.021 % Category 12) No Restriction	
PHENYLALANINE	PHENYLALANINE	150-30-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PHENYLENEDIAMINE, M-	mphenylenediamine	108452	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% in hair dyes.	
PHENYLISOPROPYL DIMETHICONE	PHENYLISOPROPYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PHENYLPROPYL ETHYL METHICONE	PHENYLPROPYL ETHYL METHICONE	68037-77-4	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PHENYLPROPYLDIMETHYLSILOXYSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
PHOSPHATIDYLCHOLINE	PHOSPHATIDYLCHOLINE	93685-90-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PHOSPHATIDYLSERINE	PHOSPHATIDYLSERINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PHOSPHINE OXIDE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)-	Diphenyl(2,4,6trimethylbenzoyl)phosphine oxide	75980608	Europe restricts this chemical: (a) Maximum concentration in ready for use preparation: Artificial Nail Systems 5% Required Warning: Professional use must include warning avoid skin contact; read directions for use carefully; for professional use only	
PHOSPHOLIPIDS	PHOSPHOLIPIDS	123465-35-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PHOSPHONIC ACID, MONOETHYL ESTER, ALUMINUM SALT (3:1)	Aluminum Compounds	39148-24-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHOSPHORIC ACID, ALUMINUM SALT (1:1)	Aluminum Compounds	7784-30-7	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHOSPHORIC ACID, CHROMIUM(3+) SALT, HYDRATE (3:1:1)	Chromium Compounds	27096-04-4	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHOSPHORIC ACID, COPPER CHROMIUM SALT	Chromium Compounds	17836-27-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHOSPHORODITHIOIC ACID, O,O-DIETHYL ESTER, NICKEL(2+) SALT (2:1)	Nickel Compounds	16743-23-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHTHALAZINE, 1-HYDRAZINO-	Hydralazine	86544	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHTHALIC ANHYDRIDE	phthalic anhydride	85449	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
PHTHALIC ANHYDRIDE	phthalic anhydride	85449	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHTHALIC ANHYDRIDE, METHYLTETRAHYDRO-	Methyl Tetrahydrophthalic Anhydride	26590205	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PHTHALIC ANHYDRIDE/ADIPIC ACID/CASTOR OIL/NEOPENTYL GLYCOL/PEG-3/TRIMETHYLOLPROPANE COPOLYMER	Phthalic Anhydride/adipic Acid/castor Oil/neopentyl Glycol/peg3/trimethylolpropane Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PHYLLACANTHA FIBROSA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
PHYLLACANTHA FIBROSA EXTRACT	PHYLLACANTHA FIBROSA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PHYTANTRIOL	PHYTANTRIOL	74563-64-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: sulphated ash, heavy metals, and diastereomer of phytantriol (3,7,11,15tetramethyl,2,3,4tetrahydroxyhexadecane)	
PHYTIC ACID	PHYTIC ACID	83863	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%.	
PHYTOL PPG-5-CETETH-20	Phytol Ppg5Ceteth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PICEA MARIANA LEAF EXTRACT	PICEA MARIANA LEAF OIL	91722199	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PICEA MARIANA LEAF EXTRACT	PICEA MARIANA LEAF EXTRACT	91722199	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PICEA MARIANA LEAF OIL	PICEA MARIANA LEAF OIL	91722199	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PICEA MARIANA LEAF OIL	PICEA MARIANA LEAF EXTRACT	91722199	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PICRAMIC ACID	PICRAMIC ACID	96-91-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.6%.	
PIGMENT RED 172 ALUMINUM LAKE	PIGMENT RED 172 ALUMINUM LAKE	12227-78-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 127)	x
Pigment Red 4 (Uncertified D&C Red No. 36)	PIGMENT RED 4	2814779	Health Canada restricts this ingredient to a maximum concentration of 3%.	
Pigment Red 4 (Uncertified D&C Red No. 36)	D&C Red No. 36	2814-77-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Pigment Red 4 (Uncertified D&C Red No. 36)	D&C Red No. 36	2814-77-9	This substance may not exceed 3% by weight in lip/oral products, in accordance with US Food and Drug Administration regulations.	
Pigment Red 4 (Uncertified D&C Red No. 36)	Pigment Red 4 (Uncertified D&C Red No. 36)	2814-77-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	Color additives subject to batch certification	5858-81-1	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	CI 15850	5858-81-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	CI 15850		This substance must contain <0.01% unsulfonated primary aromatic amines, <2 ppm lead and <1 ppm cadmium.	x
Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	5858-81-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	Pigment Red 57 (Uncertified D&C Red No. 6 or 7)	5858-81-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Pigment Red 63:1 (Uncertified D&C Red No. 34)	D&C Red No. 34	6417-83-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Pigment Red 63:1 (Uncertified D&C Red No. 34)	Pigment Red 63:1 (Uncertified D&C Red No. 34)	6417-83-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Pigment Red 64:1 (Uncertified D&C Red No. 31)	D&C Red No. 31	6371-76-2	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Pigment Red 64:1 (Uncertified D&C Red No. 31)	Brilliant Lake Red R	6371-76-2	This substance may not contain detectable levels of Sudan I (CI Solvent Yellow 14; 1phenylazo2naphthol).	
Pigment Red 64:1 (Uncertified D&C Red No. 31)	Pigment Red 64:1 (Uncertified D&C Red No. 31)	6371-76-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
PIGMENT RED 90:1 ALUMINUM LAKE	PIGMENT RED 90:1 ALUMINUM LAKE	16508-80-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PIMENTA ACRIS (BAY)	PIMENTA ACRIS (BAY)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA ACRIS (BAY)	PIMENTA ACRIS (BAY)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA ACRIS (BAY)	PIMENTA ACRIS (BAY)		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
PIMENTA ACRIS (BAY) FRUIT EXTRACT	PIMENTA ACRIS (BAY) FRUIT EXTRACT	91721-75-4	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA ACRIS (BAY) FRUIT EXTRACT	PIMENTA ACRIS (BAY) FRUIT OIL EXTRACT	91721754	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA ACRIS (BAY) FRUIT EXTRACT	PIMENTA ACRIS (BAY) FRUIT EXTRACT	91721-75-4	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PIMENTA ACRIS (BAY) FRUIT EXTRACT	PIMENTA ACRIS (BAY) FRUIT OIL	91721754	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA ACRIS (BAY) FRUIT EXTRACT	PIMENTA ACRIS (BAY) FRUIT EXTRACT	91721-75-4	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
PIMENTA ACRIS (BAY) FRUIT EXTRACT	PIMENTA ACRIS (BAY) FRUIT OIL	91721754	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
PIMENTA ACRIS (BAY) FRUIT OIL	PIMENTA ACRIS (BAY) FRUIT OIL	91721754	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA ACRIS (BAY) FRUIT OIL	PIMENTA ACRIS (BAY) FRUIT OIL	91721754	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA ACRIS (BAY) FRUIT OIL	PIMENTA ACRIS (BAY) FRUIT OIL	91721754	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PIMENTA ACRIS (BAY) LEAF OIL	PIMENTA ACRIS (BAY) LEAF OIL	8006788	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA ACRIS (BAY) LEAF OIL	PIMENTA ACRIS (BAY) LEAF OIL	8006788	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA ACRIS (BAY) LEAF OIL	PIMENTA ACRIS (BAY) LEAF OIL	8006788	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
PIMENTA DIOICA (ALLSPICE)	PIMENTA DIOICA (ALLSPICE)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA DIOICA (ALLSPICE)	PIMENTA DIOICA (ALLSPICE)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA DIOICA (ALLSPICE) EXTRACT	PIMENTA DIOICA (ALLSPICE) EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PIMENTA DIOICA (ALLSPICE) EXTRACT	PIMENTA DIOICA (ALLSPICE) EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA DIOICA (ALLSPICE) FRUIT EXTRACT	PIMENTA DIOICA (ALLSPICE) FRUIT EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA DIOICA (ALLSPICE) FRUIT EXTRACT	PIMENTA DIOICA (ALLSPICE) FRUIT EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA DIOICA (ALLSPICE) LEAF EXTRACT	PIMENTA DIOICA (ALLSPICE) LEAF EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA DIOICA (ALLSPICE) LEAF EXTRACT	PIMENTA DIOICA (ALLSPICE) LEAF EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA DIOICA (ALLSPICE) OIL	PIMENTA DIOICA (ALLSPICE) OIL	8006777	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PIMENTA DIOICA (ALLSPICE) OIL	PIMENTA DIOICA (ALLSPICE) OIL	8006777	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA OFFICINALIS (PIMENTO)	PIMENTA OFFICINALIS (PIMENTO)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA OFFICINALIS (PIMENTO)	PIMENTA OFFICINALIS (PIMENTO)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA OFFICINALIS (PIMENTO) EXTRACT	PIMENTA OFFICINALIS (PIMENTO) EXTRACT	84929-57-7	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA OFFICINALIS (PIMENTO) EXTRACT	PIMENTA OFFICINALIS (PIMENTO) EXTRACT	84929577	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA OFFICINALIS (PIMENTO) EXTRACT	PIMENTA OFFICINALIS (PIMENTO) EXTRACT	84929-57-7	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PIMENTA OFFICINALIS (PIMENTO) EXTRACT	PIMENTA OFFICINALIS (PIMENTO) EXTRACT	84929577	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMENTA OFFICINALIS (PIMENTO) LEAF OIL	PIMENTA OFFICINALIS (PIMENTO) LEAF OIL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PIMENTA OFFICINALIS (PIMENTO) LEAF OIL	PIMENTA OFFICINALIS (PIMENTO) LEAF OIL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PIMPINELLA ANISUM (ANISE) FRUIT OIL	PIMPINELLA ANISUM (ANISE) FRUIT OIL		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
PIMPINELLA ANISUM (ANISE) SEED EXTRACT	PIMPINELLA ANISUM (ANISE) SEED EXTRACT		Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
PIMPINELLA ANISUM (ANISE) SEED OIL	PIMPINELLA ANISUM FRUIT EXTRACT	84775428	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PIMPINELLA ANISUM FRUIT EXTRACT	PIMPINELLA ANISUM FRUIT EXTRACT	84775428	Estragole is restricted to 0.01% or less in the finished product if indicated by the International Fragrance Association (using the IFRA 49th Amendment Categories): Category 1) 0.012 % Category 2) 0.023 % Category 3) 0.012 % Category 4) 0.42 % Category 5A) 0.075 % Category 5B) 0.0062 % Category 5C) 0.012 % Category 5D) 0.0021 % Category 6) 0.031 % Category 7A) 0.012 % Category 7B) 0.012 % Category 8) 0.0021 % Category 9) 0.050 % Category 10A) 0.050 % Category 10B) 0.050 % Category 11A) 0.0021 % Category 11B) 0.0021 % Category 12) 1.5 %.	
PINK FRENCH CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
PINUS BANKSIANA (JACK PINE) BARK EXTRACT	PINUS STROBUS (WHITE PINE) BARK EXTRACT	90082772	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS CEMBRA TWIG LEAF EXTRACT	PINUS CEMBRA TWIG LEAF EXTRACT	92202045	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS CEMBRA TWIG LEAF EXTRACT	PINUS CEMBRA TWIG LEAF OIL	92202045	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS CEMBRA TWIG LEAF EXTRACT ACETYLATED	PINUS CEMBRA TWIG LEAF EXTRACT ACETYLATED	94334266	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS CEMBRA TWIG LEAF OIL	PINUS CEMBRA TWIG LEAF OIL	92202045	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO LEAF OIL	PINUS MUGO LEAF OIL	90082727	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO LEAF OIL	PINUS MUGO TWIG LEAF EXTRACT	90082727	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO LEAF OIL	PINUS MUGO TWIG OIL	90082727	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO PUMILIO TWIG LEAF EXTRACT	PINUS MUGO PUMILIO TWIG LEAF EXTRACT	90082738	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO PUMILIO TWIG LEAF EXTRACT	PINUS MUGO PUMILIO TWIG LEAF OIL	90082738	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO PUMILIO TWIG LEAF OIL	PINUS MUGO PUMILIO TWIG LEAF OIL	90082738	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO TWIG LEAF EXTRACT	PINUS MUGO LEAF OIL	90082727	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO TWIG LEAF EXTRACT	PINUS MUGO TWIG LEAF EXTRACT	90082727	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS MUGO TWIG LEAF EXTRACT	PINUS MUGO TWIG OIL	90082727	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PINUS MUGO TWIG OIL	PINUS MUGO TWIG OIL	90082727	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS NIGRA TWIG LEAF EXTRACT	PINUS NIGRA TWIG LEAF EXTRACT	90082749	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS NIGRA TWIG LEAF EXTRACT	PINUS NIGRA TWIG LEAF OIL	90082749	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS NIGRA TWIG LEAF OIL	PINUS NIGRA TWIG LEAF OIL	90082749	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS (LONGLEAF PINE) OIL	PINUS PALUSTRIS (LONGLEAF PINE) OIL	8002-09-3	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS (LONGLEAF PINE) OIL	PINUS PALUSTRIS (PITCH PINE)	8002-09-3	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS (PITCH PINE)	PINUS PALUSTRIS (PITCH PINE)		The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS LEAF EXTRACT	PINUS PALUSTRIS LEAF EXTRACT	97435148	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS LEAF EXTRACT	PINUS PALUSTRIS TWIG LEAF EXTRACT	97435148	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS LEAF EXTRACT	PINUS PALUSTRIS TWIG LEAF OIL	97435148	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS TWIG LEAF EXTRACT	PINUS PALUSTRIS LEAF EXTRACT	97435148	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS TWIG LEAF EXTRACT	PINUS PALUSTRIS TWIG LEAF EXTRACT	97435148	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS TWIG LEAF EXTRACT	PINUS PALUSTRIS TWIG LEAF OIL	97435148	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PALUSTRIS TWIG LEAF OIL	PINUS PALUSTRIS TWIG LEAF OIL	97435148	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PINASTER TWIG LEAF EXTRACT	PINUS PINASTER TWIG LEAF EXTRACT	90082750	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PINASTER TWIG LEAF EXTRACT	PINUS PINASTER TWIG LEAF OIL	90082750	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PINASTER TWIG LEAF OIL	PINUS PINASTER TWIG LEAF OIL	90082750	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PUMILA TWIG LEAF EXTRACT	PINUS PUMILA TWIG LEAF EXTRACT	97676056	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PINUS PUMILA TWIG LEAF EXTRACT	PINUS PUMILA TWIG LEAF OIL	97676056	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS PUMILA TWIG LEAF OIL	PINUS PUMILA TWIG LEAF OIL	97676056	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS STROBUS (WHITE PINE) BARK EXTRACT	PINUS STROBUS (WHITE PINE) BARK EXTRACT	90082772	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS STROBUS (WHITE PINE) CONE EXTRACT	PINUS STROBUS (WHITE PINE) CONE EXTRACT	94266485	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) BARK EXTRACT	PINUS SYLVESTRIS (SCOT'S PINE) BARK EXTRACT	84012351	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) BUD EXTRACT	PINUS SYLVESTRIS (SCOT'S PINE) BUD EXTRACT	84012351	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) CONE EXTRACT	PINUS SYLVESTRIS (SCOT'S PINE) CONE EXTRACT	94266485	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) LEAF EXTRACT	PINUS SYLVESTRIS (SCOT'S PINE) LEAF EXTRACT	84012351	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) LEAF EXTRACT	PINUS SYLVESTRIS (SCOT'S PINE) BARK EXTRACT	84012351	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) LEAF EXTRACT	PINUS SYLVESTRIS (SCOT'S PINE) BUD EXTRACT	84012351	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) LEAF EXTRACT	PINUS SYLVESTRIS LEAF WATER	84012351	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS (SCOT'S PINE) LEAF OIL	PINUS SYLVESTRIS (SCOT'S PINE) LEAF OIL	8023992	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PINUS SYLVESTRIS LEAF WATER	PINUS SYLVESTRIS LEAF WATER	84012351	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
PIPERAZINE	PIPERAZINE	110850	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PIPERAZINE, CITRATE (3:2)	Piperazine Citrate	144296	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PIPERAZINE, DIHYDROCHLORIDE	Piperazine Hydrochloride	142643	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PIROCTONE OLAMINE	PIROCTONE OLAMINE	68890664	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitrite-free containers	
PIROCTONE OLAMINE	PIROCTONE OLAMINE	68890-66-4	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PISTACIA LENTISCUS (MASTIC) GUM	PISTACIA LENTISCUS (MASTIC) GUM	61789922	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PISTACIA LENTISCUS (MASTIC) GUM	PISTACIA LENTISCUS (MASTIC) GUM	61789922	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PISTACIA LENTISCUS LEAF EXTRACT	PISTACIA LENTISCUS LEAF EXTRACT	90082829	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PISTACIA LENTISCUS LEAF EXTRACT	PISTACIA LENTISCUS LEAF OIL	90082829	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PISTACIA LENTISCUS LEAF EXTRACT	PISTACIA LENTISCUS LEAF EXTRACT	90082829	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PISTACIA LENTISCUS LEAF EXTRACT	PISTACIA LENTISCUS LEAF OIL	90082829	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PISTACIA LENTISCUS LEAF OIL	PISTACIA LENTISCUS LEAF OIL	90082829	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PISTACIA LENTISCUS LEAF OIL	PISTACIA LENTISCUS LEAF OIL	90082829	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PISTACIA LENTISCUS LEAF WAX	PISTACIA LENTISCUS LEAF OIL	90082829	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
PISTACIA LENTISCUS LEAF WAX	PISTACIA LENTISCUS LEAF OIL	90082829	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
PISTACIA VERA (PISTACHIO NUT) SEED OIL	Pistacia vera seed oil	129871-01-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%	
PLACENTAL EXTRACT	HUMANPLACENTALEXTRACTS		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL EXTRACT	HUMANPLACENTALENZYMES		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL EXTRACT	HUMANPLACENTALLIPIDS		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL EXTRACT	HUMANPLACENTALPROTEIN		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	

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PLACENTAL EXTRACT	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL EXTRACT	LYOPHILIZEDHUMANPLACENTALE XTRACT		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL PROTEIN	HUMANPLACENTALEXTRACTS		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL PROTEIN	HUMANPLACENTALENZYMES		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL PROTEIN	HUMANPLACENTALLIPIDS		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL PROTEIN	HUMANPLACENTALPROTEIN		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL PROTEIN	HYDROLYZEDHUMANPLACENTALP ROTEIN	73049737	Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	
PLACENTAL PROTEIN	LYOPHILIZEDHUMANPLACENTALE XTRACT		Health Canada requires manufacturers using substances of human origin provide the following information to the Cosmetics Division of the Consumer Product Safety Bureau: source of the substance; a description of the method of production; quality control data, particularly those relating to microbial limits (including viruses) and the absence of estrogenic substances; product labelling.	

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PLANTAGO OVATA	Psyllium	8063169	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
PLUKENETIA VOLUBILIS SEED OIL	Plukenetia Volubilis Seed Oil		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.6%	
PLUMBYLIUM, TRIETHYL-, HEXAFLUOROSILICATE (2-) (2:1)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
POLIANTHES TUBEROSA CALLUS EXTRACT	POLIANTHES TUBEROSA EXTRACT	94334-35-7	P. tuberosa extract contains methyl eugenol (CAS: 93152), which the EU restricts in cosmetics and is an EWG unacceptable ingredient due to cancer hazard. Products containing P. tuberosa must not contain detectable levels of methyl eugenol.	
POLIANTHES TUBEROSA CALLUS EXTRACT	POLIANTHES TUBEROSA CALLUS EXTRACT	94334357	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
POLIANTHES TUBEROSA CALLUS EXTRACT	POLIANTHES TUBEROSA CALLUS EXTRACT	94334357	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
POLIANTHES TUBEROSA EXTRACT	POLIANTHES TUBEROSA EXTRACT	94334-35-7	P. tuberosa extract contains methyl eugenol (CAS: 93152), which the EU restricts in cosmetics and is an EWG unacceptable ingredient due to cancer hazard. Products containing P. tuberosa must not contain detectable levels of methyl eugenol.	
POLIANTHES TUBEROSA EXTRACT	POLIANTHES TUBEROSA CALLUS EXTRACT	94334357	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
POLIANTHES TUBEROSA EXTRACT	POLIANTHES TUBEROSA EXTRACT	94334357	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
POLIANTHES TUBEROSA EXTRACT	POLIANTHES TUBEROSA CALLUS EXTRACT	94334357	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLIANTHES TUBEROSA EXTRACT	POLIANTHES TUBEROSA EXTRACT	94334357	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.0029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
POLIANTHES TUBEROSA FLOWER WAX	POLIANTHES TUBEROSA EXTRACT		P. tuberosa extract contains methyl eugenol (CAS: 93152), which the EU restricts in cosmetics and is an EWG unacceptable ingredient due to cancer hazard. Products containing P. tuberosa must not contain detectable levels of methyl eugenol.	
POLIANTHES TUBEROSA POLYSACCHARIDE	POLIANTHES TUBEROSA EXTRACT		P. tuberosa extract contains methyl eugenol (CAS: 93152), which the EU restricts in cosmetics and is an EWG unacceptable ingredient due to cancer hazard. Products containing P. tuberosa must not contain detectable levels of methyl eugenol.	
POLIANTHES TUBEROSA POLYSACCHARIDE	POLIANTHES TUBEROSA POLYSACCHARIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLOXAMER 101	POLOXAMER 101	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 105	POLOXAMER 105	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 105 BENZOATE	POLOXAMER 105 BENZOATE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 108	POLOXAMER 108	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 122	POLOXAMER 122	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 123	POLOXAMER 123	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 124	POLOXAMER 124	9003-11-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLOXAMER 124	POLOXAMER 124	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLOXAMER 181	POLOXAMER 181	9003-11-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLOXAMER 181	POLOXAMER 181	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 182	POLOXAMER 182	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 182 DIBENZOATE	POLOXAMER 182 DIBENZOATE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 183	POLOXAMER 183	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 184	POLOXAMER 184	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 185	POLOXAMER 185	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 188	POLOXAMER 188	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 212	POLOXAMER 212	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 215	POLOXAMER 215	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLOXAMER 217	POLOXAMER 217	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 231	POLOXAMER 231	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 234	POLOXAMER 234	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 235	POLOXAMER 235	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 237	POLOXAMER 237	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 238	POLOXAMER 238	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 282	POLOXAMER 282	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 284	POLOXAMER 284	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 288	POLOXAMER 288	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 331	POLOXAMER 331	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 333	POLOXAMER 333	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 334	POLOXAMER 334	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 335	POLOXAMER 335	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLOXAMER 338	POLOXAMER 338	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 401	POLOXAMER 401	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 402	POLOXAMER 402	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 403	POLOXAMER 403	9003-11-6	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLOXAMER 407	POLOXAMER 407	9003-11-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 20%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: aldehydes, formic acid, acetic acid, 1,4dioxane, residual ethylene oxide, and residual propylene oxide	
POLY C10-30 ALKYL ACRYLATE	POLY C10-30 ALKYL ACRYLATE		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLY C10-30 ALKYL ACRYLATE	POLY C10-30 ALKYL ACRYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
Poly(oxy-1,2-ethanediyl), .alpha;-(4-nonylphenyl)-.omega;-hydroxy-,branched	Poly(oxy1,2ethanediyl), .alpha;(4nonylphenyl).omega;hydroxy,branched	127087-87-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLY(OXY-1,2-ETHANEDIYL), .ALPHA;--(NONYLPHENYL)-.OMEGA;-HYDROXY-, BRANCHED	Poly(oxy1,2ethanediyl), .alpha;(nonylphenyl).omega;hydroxy, branched	68412-54-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLY(OXY-1,2-ETHANEDIYL), .ALPHA;--(OCTYLPHENYL)-.OMEGA;-HYDROXY-, BRANCHED	Poly(oxy1,2ethanediyl), .alpha;(octylphenyl).omega;hydroxy, branched	68987-90-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLY(OXY-1,2-ETHANEDIYL), ALPHA-ISODECYL-OMEGA-HYDROXY-	Poly(Oxy1,2Ethanediyl), AlphaisodecylOmegaHydroxy	61827-42-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLY(OXY-1,2-ETHANEDIYL), ALPHA,ALPHA'- ((OCTADECYLIMINO)DI-2,1- ETHANEDIYL)BIS(OMEGA- HYDROXY-	Poly(Oxy1,2Ethenediyl), Alpha,alpha'((Octadecylimino)di2,1Et henediyl)bis(OmegaHydroxy	26635-92-7	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLY(OXY-1,2-ETHANEDIYL), ALPHA,ALPHA',ALPHA'',ALPHA'''-(1,2- ETHANEDIYLBIS(NITRILODI-2,1-	Poly(Oxy1,2Ethenediyl), Alpha,alpha',alpha'',alpha'''(1,2Ethaned iylbis(Nitrilodi2,1	27014-42-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYACRLYAMIDE C 13-14 ISOPARAFFIN LAURETH-7	Polyacrylamide C 1314 Isoparaffin Laureth7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYACRYAMIDE/ ISOPARRAFIN/ LAURETH-7	Polyacryamide/ Isoparaffin/ Laureth7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYACRYLAMIDE	POLYACRYLAMIDE	9003-05-8	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYACRYLAMIDE	POLYACRYLAMIDE	9003-05-8	The Cosmetic Ingredient Review restricts the acrylamide monomer content of this ingredient to a maximum concentration of 5 ppm.	
POLYACRYLATE-10	POLYACRYLATE10		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYACRYLATE-11	POLYACRYLATE11		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYACRYLATE-12	POLYACRYLATE-12		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYACRYLATE-13	POLYACRYLATE13		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYACRYLATE-14	POLYACRYLATE-14		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYACRYLATE-14	POLYACRYLATE-14		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYACRYLATE-15	POLYACRYLATE-15	67892-91-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYACRYLATE-16	POLYACRYLATE-16		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYACRYLATE-18	POLYACRYLATE-18		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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POLYACRYLATE-2	POLYACRYLATE2	31759429	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYACRYLATE-2	POLYACRYLATE-2	31759-42-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYACRYLATE-5	POLYACRYLATE-5		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYACRYLATE-7	POLYACRYLATE7	243140332	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYACRYLIC ACID	POLYACRYLIC ACID	9003-01-4	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYAMINO SUGAR CONDENSATE	POLYAMINO SUGAR CONDENSATE	120022-92-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
POLYAMINOPROPYL BIGUANIDE	POLYAMINOPROPYLBIGUANIDE	133029-32-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in rinseoff products (not applied to mucosa).	
POLYAMINOPROPYL BIGUANIDE	POLYAMINOPROPYLBIGUANIDE	133029-32-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in products meant to be applied to the mucosa.	
POLYAMINOPROPYL BIGUANIDE	POLYAMINOPROPYLBIGUANIDE	133029-32-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in leaveon products (not applied to mucosa).	
POLYAMINOPROPYL BIGUANIDE	POLYAMINOPROPYL BIGUANIDE	133029-32-0	The European Commission restricts this ingredient up to a maximum concentration of 0.30%	
POLYAMINOPROPYL BIGUANIDE	POLYAMINOPROPYL BIGUANIDE	133029-32-0	Per COSING, the maximum concentration in RTU preparation is 0.10%. Prohibited for use in applications that may lead to exposure of the end-user's lungs by inhalation.	x
POLYAMINOPROPYL BIGUANIDE	POLYAMINOPROPYL BIGUANIDE	133029-32-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POLYBUTENE	POLYBUTENE	9003285	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 82%	
POLYBUTYL ACRYLATE	POLYBUTYL ACRYLATE	9003-49-0	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYBUTYL ACRYLATE	POLYBUTYL ACRYLATE	9003-49-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYBUTYL METHACRYLATE	POLYBUTYL METHACRYLATE		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYBUTYL METHACRYLATE	POLYBUTYL METHACRYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYDECENE	POLYDECENE	37309-58-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYDIMETHYLSILOXY PEG/PPG-24/19 BUTYL ETHER SILSESQUIOXANE	Polydimethylsiloxo Peg/ppg24/19 Butyl Ether Silsesquioxane	68554654	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYDIMETHYLSILOXY PEG/PPG-24/19 BUTYL ETHER SILSESQUIOXANE	Polydimethylsiloxo Peg/ppg24/19 Butyl Ether Silsesquioxane	68554-65-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.023%	
POLYDIMETHYLSILOXY PPG-13 BUTYL ETHER SILSESQUIOXANE	POLYDIMETHYLSILOXY PPG-13 BUTYL ETHER SILSESQUIOXANE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYESTER/EPOXY/CALCIUM SODIUM BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
Polyethoxylated Methyloctadecylammonium Methyl Sulfate	Polyethoxylated Methyloctadecylammonium Methyl Sulfate	38096-68-3	The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	x
POLYETHYLACRYLATE	POLYETHYLACRYLATE	9003-32-1	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYETHYLACRYLATE	POLYETHYLACRYLATE	9003-32-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYETHYLENE BEADS	Polyethylene Beads		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYETHYLENE GLYCOL	Polyethylene Glycol	25322683	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYETHYLENE GLYCOL MONOSTEARATE 1000	Polyethylene Glycol Monostearate 1000		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Polyethylene glycol octylphenol ether;	Polyethylene Glycol Octylphenol Ether;	9002-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Polyethylene glycol octylphenol ether;	Polyethylene Glycol Octylphenol Ether	9002-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYETHYLENE HDI/ TRIMETHYLOL HEXYLLACTONE CROSSPOLYMER	Polyethylene Hdi/ Trimethylol Hexyllactone Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYETHYLENE HYDROXYETHYLCELLULOSE	Polyethylene Hydroxyethylcellulose		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYETHYLENE POLYGLYCERYL-4 ISOSTEARATE	Polyethylene Polyglyceryl4 Isostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYETHYLENE/ISOPROPYL MALEATE/MA COPOLYOL	Polyethylene/isopropyl Maleate/ma Copolyol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Polyethyleneglycol isotridecyl Ether	Polyethyleneglycol Isotridecyl Ether	9043-30-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Polyethyleneimine ethoxylates	Polyethyleneimine Ethoxylates		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Polyethyleneimine Propoxyethoxylate	Polyethyleneimine Propoxyethoxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYGLYCERYL-10 DODECACAPRYLATE/CAPRATE	POLYGLYCERYL-10 DODECACAPRYLATE/CAPRATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYGLYCERYL-2 LANOLIN ALCOHOL ETHER	POLYGLYCERYL-2 LANOLIN ALCOHOL ETHER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYGLYCERYL-2 STEARATE	Polyglyceryl2 Stearate	9009329	The Cosmetic Ingredient Review has determined this ingredient to be safe as used when formulated to be nonirritating up to a concentration of 2.2%.	
POLYGLYCERYL-2 TRIISOSTEARATE	POLYGLYCERYL2 TRIISOSTEARATE	120486240	The Cosmetic Ingredient Review has determined this ingredient to be safe as used when formulated to be nonirritating up to a concentration of 40%.	
POLYGLYCERYL-2-PEG-4 STEARATE	Polyglyceryl2Peg4 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYGLYCERYL-3 DIHYDROXY STEARATE	POLYGLYCERYL-3 DIHYDROXY STEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYGLYCERYL-3 DISILOXANE DIMETHICONE	POLYGLYCERYL-3 DISILOXANE DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE	POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
POLYGLYCERYL-4 CAPRATE	Polyglyceryl4 Caprate	160391-93-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when formulated to be nonirritating up to 1.5%.	
POLYGLYCERYL-4-PEG-2 COCAMIDE	Polyglyceryl4Peg2 Cocamide		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYGLYCERYL-4-PEG-2 COCAMIDE	POLYGLYCERYL-4-PEG-2 COCAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYGLYCERYL-8 DECAERUCATE/DECAISOSTEARATE/DECARICINOLE ATE	POLYGLYCERYL-8 DECAERUCATE/DECAISOSTEARATE/DECARICINOLE ATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYHYDROXYETHYLMETHACRYLATE	POLYHYDROXYETHYLMETHACRYLATE	25249-16-5	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYHYDROXYETHYLMETHACRYLATE	POLYHYDROXYETHYLMETHACRYLATE	25249-16-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYISOPRENE	POLYISOPRENE	9003-31-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYMETHYL ACRYLATE	POLYMETHYL ACRYLATE	9003-21-8	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYMETHYL ACRYLATE	POLYMETHYL ACRYLATE	9003-21-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYMETHYL METHACRYLATE	Polymethyl Methacrylate	9011147	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
POLYMETHYL METHACRYLATE	POLYMETHYL METHACRYLATE	87210-32-0	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYMETHYLMETHACRYLATE	Polymethyl Methacrylate	9011147	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
POLYOX PEG 7M	Polyox Peg 7m		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYOXYETHYLENE CETYL STEARYL DIETHER	Polyoxyethylene Cetyl Stearyl Diether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYOXYETHYLENE GLYCOL DIMERCAPTOACETATE	Polyoxyethylene Glycol Dimercaptoacetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYOXYETHYLENE POLYOXYPROPYLENE GLYCOL	Polyoxyethylene Polyoxypropylene Glycol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYOXYMETHYLENE UREA	POLYOXYMETHYLENE UREA	68611-64-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% of free formaldehyde. Additionally, this ingredient may not be used in aerosol products.	
POLYOXYMETHYLENE UREA	Urea Formaldehyde Resin	9011056	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
POLYPENTAERYTHRITYL TEREPHTHALATE	POLYPENTAERYTHRITYL TEREPHTHALATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYPENTENE	POLYPENTENE	9078-70-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYPERFLUOROETHOXYMETHOXY DIFLUOROETHYL PEG DIISOSTEARATE	Polyperfluoroethoxymethoxy Difluoroethyl Peg Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYPERFLUOROETHOXYMETHOXY DIFLUOROETHYL PEG ETHER	Polyperfluoroethoxymethoxy Difluoroethyl Peg Ether	88645298	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYPERFLUOROETHOXYMETHOXY DIFLUOROETHYL PEG ETHER DIISOSTEARATE	Polyperfluoroethoxymethoxy Difluoroethyl Peg Ether Diisostearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYPERFLUOROETHOXYMETHOXY DIFLUOROETHYL PEG PHOSPHATE	Polyperfluoroethoxymethoxy Difluoroethyl Peg Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYPERFLUOROETHOXYMETHOXY PEG-2 PHOSPHATE	Polyperfluoroethoxymethoxy Peg2 Phosphate	162567740	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYPROPYL METHACRYLATE	POLYPROPYL METHACRYLATE		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POLYPROPYL METHACRYLATE	POLYPROPYL METHACRYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYPROPYLENE	Polypropylene, Heated	9003070	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
POLYPROPYLENE	POLYPROPYLENE	9003-07-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYPROPYLENE TEREPHTHALATE	POLYPROPYLENE TEREPHTHALATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYPROPYLSILSESQUIOXANE	Polypropylsilsesquioxane	36088-62-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
POLYQUATERNIUM-10	POLYQUATERNIUM10	68610-92-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
POLYQUATERNIUM-11	POLYQUATERNIUM11	53633-54-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
POLYQUATERNIUM-15	POLYQUATERNIUM15	35429197	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-32	POLYQUATERNIUM32	35429197	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYQUATERNIUM-33	POLYQUATERNIUM33	69418264	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-39	Polyquaternium39	25136758	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-43	POLYQUATERNIUM43		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-5	POLYQUATERNIUM5	26006224	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-53	POLYQUATERNIUM53	84647381	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-6	POLYQUATERNIUM-6	26062-79-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYQUATERNIUM-63	POLYQUATERNIUM63		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-7	POLYQUATERNIUM7	26590056	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POLYQUATERNIUM-7	POLYQUATERNIUM7	26590-05-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4%	
POLYSILICONE-11	POLYSILICONE-11		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYSILICONE-13	POLYSILICONE-13	158451-77-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYSILICONE-15	Dimethicodiethylbenzalmalonate	207574-74-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in rinseoff products (not applied to mucosa).	
POLYSILICONE-15	Dimethicodiethylbenzalmalonate	207574-74-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in products meant to be applied to the mucosa.	
POLYSILICONE-15	Dimethicodiethylbenzalmalonate	207574-74-1	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 10% in leaveon products (not applied to mucosa).	
POLYSILICONE-15	POLYSILICONE-15	207574-74-1	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
POLYSILICONE-2	Polysilicone2		(*) The Cosmetic Ingredient Review has determined that this ingredient is safe in cosmetics when used as surface modifiers (i.e. encapsulating metal oxides), and there is insufficient data to determine the safety of these ingredients when used independently or for other functions.	
POLYSILICONE-4	Polysilicone4		(*) The Cosmetic Ingredient Review has determined that this ingredient is safe in cosmetics when used as surface modifiers (i.e. encapsulating metal oxides), and there is insufficient data to determine the safety of these ingredients when used independently or for other functions.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYSILICONE-5	Polysilicone5		(*) The Cosmetic Ingredient Review has determined that this ingredient is safe in cosmetics when used as surface modifiers (i.e. encapsulating metal oxides), and there is insufficient data to determine the safety of these ingredients when used independently or for other functions.	
POLYSORBATE 21	POLYSORBATE 21	9005-64-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSORBATE 61	POLYSORBATE 61	9005-67-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSORBATE 65	POLYSORBATE 65	9005-71-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSORBATE 81	POLYSORBATE 81	9005-65-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSORBATE-20	POLYSORBATE20	9005645	The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4-dioxane cannot exceed 1 ppm in the final product.	
POLYSORBATE-20	POLYSORBATE-20	9005-64-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSORBATE-40	PEG80 SORBITAN PALMITATE	9005667	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYSORBATE-40	POLYSORBATE40	9005667	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYSORBATE-40	POLYSORBATE-40	9005-66-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSORBATE-60	POLYSORBATE60	9005678	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYSORBATE-60	POLYSORBATE-60	9005-67-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSORBATE-80	POLYSORBATE80	9005656	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYSORBATE-80	POLYSORBATE-80	9005-65-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYSORBATE-85	Peg2 Sorbitan Trioleate	9005703	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POLYSORBATE-85	POLYSORBATE-85	9005-70-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POLYSTYRENE	POLYSTYRENE	9003-53-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYSTYRENE HYDROGENATED POLYISOPENTENE COPOLYMER	POLYSTYRENE HYDROGENATED POLYISOPENTENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-1	Polyurethane1		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 15%	
POLYURETHANE-10	Polyurethane10		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
POLYURETHANE-11	Polyurethane11		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 5%	
POLYURETHANE-12	POLYURETHANE-12		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-13	POLYURETHANE-13		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-14	Polyurethane14		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
POLYURETHANE-15	Polyurethane15		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.2%	
POLYURETHANE-16	Polyurethane16		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.98%	
POLYURETHANE-17	POLYURETHANE17	347175784	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
POLYURETHANE-17	POLYURETHANE-17	347175-78-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-18	POLYURETHANE18		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.8%	
POLYURETHANE-19	POLYURETHANE-19		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-2	Polyurethane2		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 9%	
POLYURETHANE-20	POLYURETHANE-20		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-21	POLYURETHANE21		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
POLYURETHANE-21	POLYURETHANE-21		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-35	Polyurethane35		The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 7%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POLYURETHANE-4	POLYURETHANE-4		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-5	POLYURETHANE-5		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-6	Polyurethane6		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 6%	
POLYURETHANE-7	POLYURETHANE-7		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-8	POLYURETHANE-8		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYURETHANE-9	POLYURETHANE-9	69011-31-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POLYVINYL ALCOHOL	Polyvinyl alcohol	9002895	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
POLYVINYL CHLORIDE	Polyvinyl Chloride	9002862	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
POLYVINYL CHLORIDE	Polyvinyl Chloride (Nonheated)	9002862	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
Polyvinylpyrrolidone	Polyvinylpyrrolidone	9003-39-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Polyvinylpyrrolidone	Polyvinylpyrrolidone	9003-39-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Ponceau SX (Uncertified FD&C Red No. 4)	FD&C Red 4	4548532	The European Commission banned the use of this substance in 2009.	
Ponceau SX (Uncertified FD&C Red No. 4)	AKA504	4548532	The European Commission banned the use of this substance in 2009.	
Ponceau SX (Uncertified FD&C Red No. 4)	Color additives subject to batch certification	4548-53-2	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Ponceau SX (Uncertified FD&C Red No. 4)	Ponceau SX (Uncertified FD&C Red No. 4)	4548-53-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
PORPHYRA UMBILICALIS (RED ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
PORPHYRA UMBILICALIS (RED ALGAE) EXTRACT	PORPHYRA UMBILICALIS (RED ALGAE) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PORPHYRA UMBILICALIS POWDER	PORPHYRA UMBILICALIS POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PORPHYRA YEZOENSIS (ALGAE) LEAF	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
PORPHYRIDIDIUM CRUENTUM (RED ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PORPHYRIDIDIUM/ZINC FERMENT	PORPHYRIDIDIUM/ZINC FERMENT		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
POTASSIUM ACETATE	POTASSIUM ACETATE	127-08-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
POTASSIUM ACETATE	POTASSIUM ACETATE	127-08-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM ACRYLATES/ACRYLAMIDE COPOLYMER	POTASSIUM ACRYLATES/ACRYLAMIDE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
POTASSIUM ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	Potassium Acrylates/C1030 Alkyl Acrylate Crosspolymer	86416-97-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.3%	
POTASSIUM ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	POTASSIUM ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	86416-97-9	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POTASSIUM ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	POTASSIUM ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	86416-97-9	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POTASSIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	POTASSIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POTASSIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	POTASSIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM ALGINATE	POTASSIUM ALGINATE	9005-36-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM ALUM	Aluminum Compounds	7784-24-9	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
POTASSIUM ALUMINUM POLYACRYLATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
POTASSIUM ALUMINUM POLYACRYLATE	POTASSIUM ALUMINUM POLYACRYLATE		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POTASSIUM ASCORBYL TOCOPHERYL PHOSPHATE	POTASSIUM ASCORBYL TOCOPHERYL PHOSPHATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.02%.	
POTASSIUM ASCORBYL TOCOPHERYL PHOSPHATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM ASCORBYLBORATE	POTASSIUM ASCORBYLBORATE		The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
POTASSIUM ASPARTATE	POTASSIUM ASPARTATE	1115-63-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM BEHENATE	POTASSIUM BEHENATE	7211-53-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM BENZOATE	POTASSIUM BENZOATE	582-25-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.0003%.	
POTASSIUM BENZOATE	Benzoate	582-25-2	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
POTASSIUM BORATE	POTASSIUM BORATE	1332770	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products, 18% (as boric acid) in bath products, and 8% (as boric acid) in hair products. For all other products, the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. For all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For hair products, the following are required: 'Not to be used for children under 3 years of age'. Lastly, for hair products, the following warning is required: 'Rinse well'.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM BROMATE	potassium bromate	7758-01-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10.17% calculated as sodium bromate.	
POTASSIUM BROMATE	POTASSIUMBROMATE	7758-01-2	Required Warning: Health Canada requires that the product is packaged in a childresistant container. Additionally, the following warning text are required on the package/label of products containing at least 50 mg of potassium bromate: 'This product contains potassium bromate, is poisonous, and is to be kept out of the reach of children. In case of accidental ingestion, a Poison Control Centre or physician is to be contacted immediately'.	
POTASSIUM C11-15 ALKYL PHOSPHATE	POTASSIUM C11-15 ALKYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM C12-14 ALKYL PHOSPHATE	POTASSIUM C12-14 ALKYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM C9-15 ALKYL PHOSPHATE	POTASSIUM C9-15 ALKYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM CAPROYL TYROSINE	POTASSIUM CAPROYL TYROSINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM CARBOMER	POTASSIUM CARBOMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POTASSIUM CARBOMER	POTASSIUM CARBOMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM CARRAGEENAN	POTASSIUM CARRAGEENAN	64366-24-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM CASEINATE	POTASSIUM CASEINATE	68131-54-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM CASTORATE	POTASSIUM CASTORATE	8013-05-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM CHLORATE	potassium chlorate	3811-04-9	The European Commission restricts this ingredient to a maximum concentration of 5% in toothpastes and 3% in all other products.	
POTASSIUM CITRATE	POTASSIUM CITRATE	866-84-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.6%.	
POTASSIUM COCOATE	POTASSIUM COCOATE	61789308	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 40%.	
POTASSIUM COCOYL GLUTAMATE	Potassium cocoyl glutamate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 12%	
POTASSIUM COCOYL GLYCINATE	Potassium Cocoyl Glycinate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 39%	
POTASSIUM COCOYL TAURATE	POTASSIUM COCOYL TAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM DECETH-4 PHOSPHATE	Potassium Deceth4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM DEXTRIN OCTENYLSUCCINATE	POTASSIUM DEXTRIN OCTENYLSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM DIMETHICONE	POTASSIUM DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
POTASSIUM DIMETHICONE COPOLYOL PANTHENYL PHOSPHATE	POTASSIUM DIMETHICONE COPOLYOL PANTHENYL PHOSPHATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
POTASSIUM DIMETHICONE COPOLYOL PANTHENYL PHOSPHATE	POTASSIUM DIMETHICONE COPOLYOL PANTHENYL PHOSPHATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
POTASSIUM DIMETHICONE PEG-7 PANTHENYL PHOSPHATE	Potassium Dimethicone Peg7 Panthenyl Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM DIMETHICONE PEG-7 PANTHENYL PHOSPHATE	POTASSIUM DIMETHICONE PEG-7 PANTHENYL PHOSPHATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
POTASSIUM DIMETHICONE PEG-7 PHOSPHATE	Potassium Dimethicone Peg7 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM DIMETHICONE PEG-7 PHOSPHATE	POTASSIUM DIMETHICONE PEG-7 PHOSPHATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM FLUORIDE	potassium fluoride	7789233	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains potassium fluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
POTASSIUM FLUOROSILICATE	POTASSIUM FLUOROSILICATE	16871902	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains potassium fluorosilicate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
POTASSIUM FLUOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
POTASSIUM FRUCTOBORATE	POTASSIUM FRUCTOBORATE		The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
POTASSIUM GLUCONATE	POTASSIUM GLUCONATE	299-27-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM GLYCYRRHETINATE	POTASSIUM GLYCYRRHETINATE	85985-61-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: pesticides/PCB, toxic metals, and heavy metals.	
POTASSIUM HYDROGENATED TALLOWATE	POTASSIUM HYDROGENATED TALLOWATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM HYDROXIDE	Potassium hydroxide	1310583	The European Commission restricts this ingredient to a maximum concentration of 5% in nail cuticle solvent, 2% in general use hair straighteners, and 4.5% in professional use hair straighteners (The quantity of sodium, potassium or lithium hydroxide is expressed as weight of sodium hydroxide. In cases of mixtures, the sum should not exceed the limits given 'Maximum concentration in ready for use preparation'). The European Commission also restricts final formulation pH up to 12.7 as a pH adjuster for depilatories and up to 11 for other uses. Required Warning: The European Commission requires the following warning text on the product label/package of nail cuticle solvents and general use hair straighteners: 'Contains alkali'; 'Avoid contact with eyes'; 'Can cause blindness'; 'Keep out of reach of children'. For professional use hair straighteners, the following are required: 'Avoid contact with eyes'; 'Can cause blindness'. Lastly, as a pH adjuster for depilatories, the following are required on the label: 'Keep out of reach of children'; 'Avoid contact with eyes'	
POTASSIUM HYDROXIDE	Potassium hydroxide	1310583	The European Commission restricts this ingredient to a maximum concentration of 5% in nail cuticle solvent, 2% in general use hair straighteners, and 4.5% in professional use hair straighteners (The quantity of sodium, potassium or lithium hydroxide is expressed as weight of sodium hydroxide. In cases of mixtures, the sum should not exceed the limits given 'Maximum concentration in ready for use preparation'). The European Commission also restricts final formulation pH up to 12.7 as a pH adjuster for depilatories and up to 11 for other uses. Required Warning: The European Commission requires the following warning text on the product label/package of nail cuticle solvents and general use hair straighteners: 'Contains alkali'; 'Avoid contact with eyes'; 'Can cause blindness'; 'Keep out of reach of children'. For professional use hair straighteners, the following are required: 'Avoid contact with eyes'; 'Can cause blindness'. Lastly, as a pH adjuster for depilatories, the following are required on the label: 'Keep out of reach of children'; 'Avoid contact with eyes'	
POTASSIUM HYDROXIDE	Potassium hydroxide	1310-58-3	(*) The Cosmetic Ingredient Review has determined that users should minimize skin contact for hair straighteners and depilatories that contain this ingredient.	
POTASSIUM HYDROXIDE	POTASSIUM HYDROXIDE	1310-58-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM HYDROXYSTEARATE	POTASSIUM HYDROXYSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM ISOSTEARATE	POTASSIUM ISOSTEARATE	68413-46-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM LANOLATE	POTASSIUM LANOLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM LAURATE	POTASSIUM LAURATE	10124-65-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM LAURETH PHOSPHATE	Potassium Laureth Phosphate	68954870	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM LAURETH-10 CARBOXYLATE	Potassium Laureth10 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM LAURETH-3 CARBOXYLATE	Potassium Laureth3 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM LAURETH-4 CARBOXYLATE	Potassium Laureth4 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM LAURETH-5 CARBOXYLATE	Potassium Laureth5 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM LAURETH-6 CARBOXYLATE	Potassium Laureth6 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM LAUROYL COLLAGEN AMINO ACIDS	POTASSIUM LAUROYL COLLAGEN AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM LAUROYL GLUTAMATE	POTASSIUM LAUROYL GLUTAMATE	89187-78-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM LAUROYL WHEAT AMINO ACIDS	potassium lauroyl wheat amino acids		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.7%	
POTASSIUM LAURYL PHOSPHATE	POTASSIUM LAURYL PHOSPHATE	39322-78-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM LINOLEATE	POTASSIUM LINOLEATE	3414-89-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM METABISULFITE	POTASSIUM METABISULFITE	4429429	The European Commission restricts this ingredient to a maximum concentration of 0.67% (as free SO ₂) in oxidative hair dyes, 6.7% (as free SO ₂) in hair straightening products, 0.45% (as free SO ₂) in selftanning face products, and 0.40% (as free SO ₂) in other selftanning products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
POTASSIUM METABISULFITE	POTASSIUM METABISULFITE	4429-42-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM METHYL COCOYL TAURATE	POTASSIUM METHYL COCOYL TAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM MONOFLUOROPHOSPHATE	POTASSIUM MONOFLUOROPHOSPHATE	14104280	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains potassium monofluorophosphate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a pea-sized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
POTASSIUM MYRISTATE	POTASSIUM MYRISTATE	13429-27-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
POTASSIUM MYRISTOYL GLUTAMATE	Potassium Myristoyl Glutamate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 27%	
POTASSIUM OCTOXYNOL-12 PHOSPHATE	POTASSIUM OCTOXYNOL12 PHOSPHATE	68891736	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.05%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: 1,4dioxane and ethylene oxide.	
POTASSIUM OLEATE	POTASSIUM OLEATE	143-18-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM PALM KERNELATE	POTASSIUM PALM KERNELATE	70969-43-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 30%	
POTASSIUM PALMATE	POTASSIUM PALMATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
POTASSIUM PALMITATE	POTASSIUM PALMITATE	2624-31-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM PARABEN	POTASSIUM PARABEN	16782-08-4	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x
POTASSIUM PCA	POTASSIUM PCA	4810-50-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%	
POTASSIUM PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	Potassium Peg50 Hydrogenated Castor Oil Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	POTASSIUM PEG-50 HYDROGENATED CASTOR OIL SUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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POTASSIUM PERSULFATE	POTASSIUM PERSULFATE	7727211	The Cosmetic Ingredient Review restricts the use of this ingredient to hair colorants and hair lighteners designed for brief discontinuous use followed by thorough rinsing. the available data are insufficient for determining the safety of these persulfates in leaveon products and dentifrices	
POTASSIUM POLYACRYLATE	POTASSIUM POLYACRYLATE	25608-12-2	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
POTASSIUM SALICYLATE	POTASSIUM SALICYLATE	578-36-9	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
POTASSIUM SALICYLATE	Salicylic acid and its salts	578369	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.5%; Not to be used in products for children under 3 years of age, except for shampoos. Required Warning: Required warning: Not to be used for children under 3 years of age***. ***Solely for products which might be used for children under 3 years of age and which remain in prolonged contact with the skin.	
POTASSIUM SALICYLATE	POTASSIUM SALICYLATE	578-36-9	Per COSING, the maximum concentration in RTU preparation is 0.5%. This ingredient is not to be used in products for children under 3 years of age (except for shampoos), in oral products, or in applications that may lead to exposure of the end-user's lungs by inhalation.	x
POTASSIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
POTASSIUM SORBATE	POTASSIUM SORBATE	24634615	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
POTASSIUM STEARATE	POTASSIUM STEARATE	593293	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
POTASSIUM SULFIDE	potassium sulfide	1312738	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
POTASSIUM SULFIDE	POTASSIUMSULFIDE	1312738	Health Canada restricts this ingredient to a maximum concentration of 2% (sulfur) in depilatory products.	
POTASSIUM SULFITE	POTASSIUM SULFITE	10117381	The European Commission restricts this ingredient to a maximum concentration of 0.67% (as free SO2) in oxidative hair dyes, 6.7% (as free SO2) in hair straightening products, 0.45% (as free SO2) in selftanning face products, and 0.40% (as free SO2) in other selftanning products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM SUNFLOWERSEEDATE	POTASSIUM SUNFLOWERSEEDATE		The Cosmetic Ingredient Review (CIR) panel concluded that this substance is safe as used when formulated to be non-sensitizing, which may be determined based on a quantitative risk assessment (QRA).	x
POTASSIUM TALLOWATE	POTASSIUM TALLOWATE	61790-32-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM TAURATE	POTASSIUM TAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTASSIUM THIOGLYCOLATE	POTASSIUM THIOGLYCOLATE	34452512	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professional use only.'	
POTASSIUM THIOGLYCOLATE	POTASSIUM THIOGLYCOLATE	34452-51-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% (as thioglycolic acid) in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
POTASSIUM TRIDECETH-15 CARBOXYLATE	Potassium Trideceth15 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM TRIDECETH-19 CARBOXYLATE	Potassium Trideceth19 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM TRIDECETH-3 CARBOXYLATE	Potassium Trideceth3 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM TRIDECETH-4 CARBOXYLATE	Potassium Trideceth4 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
POTASSIUM TRIDECETH-6 PHOSPHATE	Potassium Trideceth6 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM TRIDECETH-7 CARBOXYLATE	Potassium Trideceth7 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM TRIDECETH-7 PHOSPHATE	Potassium Trideceth7 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
POTASSIUM UNDECYLENATE	POTASSIUM UNDECYLENATE	6159-41-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
POTASSIUM UNDECYLENOYL ALGINATE	POTASSIUM UNDECYLENOYL ALGINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM UNDECYLENOYL CARRAGEENAN	POTASSIUM UNDECYLENOYL CARRAGEENAN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
POTASSIUM XYLENE SULFONATE	POTASSIUM XYLENE SULFONATE	30346-73-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
POTATO STARCH, MODIFIED	POTATO STARCH, MODIFIED		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-1 CETETH-3 ACETATE	Ppg1 Ceteth3 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1 HYDROXYETHYL CAPRYLAMIDE	PPG-1 HYDROXYETHYL CAPRYLAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-1 TRIDECETH-6	PPG1 Trideceth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1-CETETH-1	PPG1Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1-CETETH-10	PPG1Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-1-CETETH-20	PPG1Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1-CETETH-5	PPG1Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1-DECETH-6	PPG1Deceth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1-ISOCETETH-3	Ppg1Isoceteth3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1-PEG-9 LAURYL GLYCOL	Ppg1Peg9 Lauryl Glycol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-1-PEG-9 LAURYL GLYCOL ETHER	Ppg1Peg9 Lauryl Glycol Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-10 LANOLIN ALCOHOL ETHER	PPG-10 LANOLIN ALCOHOL ETHER	68439-53-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-10 METHYL GLUCOSE ETHER	PPG-10 METHYL GLUCOSE ETHER	61849-72-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-10 TOCOPHEREETH-30	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PPG-10-CETEARETH-20	PPG10Ceteareth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-10-Laureth-7	Ppg10Laureth7	68439-51-0	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-11 STEARYL ETHER	PPG11 STEARYL ETHER	25231-21-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
PPG-12 BUTETH-16	Ppg12 Buteth16	9038-95-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PPG-12 BUTETH-16	PPG12BUTETH16	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
PPG-12 BUTYL ETHER DIMETHICONE	PPG-12 BUTYL ETHER DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-12 DIMETHICONE	PPG-12 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PPG-12 DIMETHICONE	PPG-12 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-12-PEG-50 LANOLIN	Ppg12Peg50 Lanolin	68458888	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-12-PEG-50 LANOLIN	PPG-12-PEG-50 LANOLIN	68458-88-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-12-PEG-65 LANOLIN OIL	Ppg12Peg65 Lanolin Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-12-PEG-65 LANOLIN OIL	PPG-12-PEG-65 LANOLIN OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-13-DECYLTETRADECETH-24	PPG13Decyltetradeceth24		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-14 BUTYL ETHER	PPG14 BUTYL ETHER	9003-13-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 18%	
PPG-14 DECETH-6	Ppg14 Deceth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-14 LAURETH-60 ALKYL DICARBAMATE	Ppg14 Laureth60 Alkyl Dicarbamate	226994827	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-14 LAURETH-60 HEXYL DICARBAMATE	Ppg14 Laureth60 Hexyl Dicarbamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-14 LAURETH-60 ISOPHORYL DICARBAMATE	Ppg14 Laureth60 Isophoryl Dicarbamate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-15 STEARYL ETHER	PPG15 STEARYL ETHER	25231-21-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
PPG-15 STEARYL ETHER BENZOATE	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
PPG-15-BUTETH-20	PPG15Buteth20	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 6%	
PPG-15-PEG-11 HYDROGENATED LAURYL ALCOHOL ETHER	Ppg15Peg11 Hydrogenated Lauryl Alcohol Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-17-BUTETH-17	PPG17Buteth17	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
PPG-2 BUTYL ETHER	PPG2 BUTYL ETHER	9003-13-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 8%	
PPG-2 COCAMIDE	PPG-2 COCAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-2 DIMETHICONE	Ppg2 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2 DIMETHICONE	PPG-2 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PPG-2 DIMETHICONE	PPG-2 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-2 HYDROXYETHYL COCAMIDE	PPG-2 HYDROXYETHYL COCAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-2 HYDROXYETHYL COCO/ ISOSTEARAMIDE	PPG-2 HYDROXYETHYL COCO/ ISOSTEARAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-2 ISOCETETH-20 ACETATE	Ppg2 Isoceteth20 Acetate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2 LANOLIN ALCOHOL ETHER	PPG-2 LANOLIN ALCOHOL ETHER	68439-53-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-2 TOCOPHEREETH-5	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PPG-2-CETARETH-9	PPG2Cetareth9		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-CETETH-1	PPG2Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-2-CETETH-10	PPG2Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-CETETH-20	PPG2Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-CETETH-5	PPG2Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-10	PPG2Deceth10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-12	PPG2Deceth12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-15	PPG2Deceth15		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-20	PPG2Deceth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-3	PPG2Deceth3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-30	PPG2Deceth30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-40	PPG2Deceth40		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-2-DECETH-50	PPG2Deceth50		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-60	PPG2Deceth60		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-DECETH-7	PPG2Deceth7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-ISODECETH-12	PPG2Isodeceth12	155683775	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-ISODECETH-4	PPG2Isodeceth4		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-ISODECETH-6	PPG2Isodeceth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-ISODECETH-9	PPG2Isodeceth9		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-LAURETH-5	PPG2Laureth5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-LAURETH-8	PPG2Laureth8		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-2-PEG-11 HYDROGENATED LAURYL ALCOHOL ETHER	PPG2PEG11 Hydrogenated Lauryl Alcohol Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PPG-2-PEG-6 COCONUT OIL ESTERS	Ppg2Peg6 Coconut Oil Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-20 LANOLIN ALCOHOL ETHER	PPG-20 LANOLIN ALCOHOL ETHER	68439-53-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-20 TOCOPHEREETH-50	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PPG-20-DECYL TETRADECETH-10	PPG20Decyltetradeceth10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-20-PEG-20 HYDROGENATED LANOLIN	Ppg20Peg20 Hydrogenated Lanolin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-20-PEG-20 HYDROGENATED LANOLIN	PPG-20-PEG-20 HYDROGENATED LANOLIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-23-PEG-4 TRIMETHYLOLPROPANE	Ppg23Peg4 Trimethylolpropane		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-23-STEARETH-34	PPG23Steareth34	9038-43-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-24-PEG-21 TALLOWAMINOPROPYLAMINE	Ppg24Peg21 Tallowaminopropylamine		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-25-LAURETH-25	PPG25Laureth25	37311005	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-25-PEG-25 TRIMETHYLOLPROPANE	Ppg25Peg25 Trimethylolpropane		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-26-BUTETH-26	PPG26BUTETH26	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
PPG-26/HDI COPOLYMER	PPG-26/HDI COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-27 DIMETHICONE	PPG-27 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-28-BUTETH-35	PPG28BUTETH35	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 22%	
PPG-3 HYDROXYETHYL SOYAMIDE	PPG-3 HYDROXYETHYL SOYAMIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-3 METHYL ETHER	PPG3 METHYL ETHER	25498-49-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-3-DECETH-2 CARBOXYLIC ACID	Ppg3Deceth2 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-3-ISODECETH-1	PPG3Isodeceth1		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-3-LAURETH-10	PPG3Laureth10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-3-LAURETH-12	PPG3Laureth12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-3-LAURETH-8	PPG3Laureth8		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-3-LAURETH-9	PPG3Laureth9		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-3-PEG-6 OLEYL ETHER	PPG3PEG6 Oleyl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-30 LANOLIN ALCOHOL ETHER	PPG-30 LANOLIN ALCOHOL ETHER	68439-53-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-30 TOCOPHEREETH-70	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PPG-33 BUTYL ETHER	PPG33 BUTYL ETHER	9003-13-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 10%	
PPG-33-BUTETH-45	PPG33Buteth45	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.03%	
PPG-38-BUTETH-37	PPG38Buteth37	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.8%	

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PPG-4 C13-15 PARETH-15	PPG-4 C13-15 PARETH-15		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-4 DECETH-6	Ppg4 Deceth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4 LAURETH-2	Ppg4 Laureth2		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4 LAURETH-2	PPG-4 LAURETH-2		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-4 LAURETH-5	Ppg4 Laureth5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4 LAURETH-5	PPG-4 LAURETH-5		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-4 LAURETH-7	Ppg4 Laureth7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4 LAURETH-7	PPG-4 LAURETH-7		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-4 Laureth-8	Ppg4 Laureth8		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4 OLETH-10 DIMETHICONE	Ppg4 Oleth10 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4 OLETH-10 DIMETHICONE	PPG-4 OLETH-10 DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-4 TRIDECETH-6	Ppg4 Trideceth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4 TRIDECETH-6	PPG-4 TRIDECETH-6		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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PPG-4-CETEARETH-12	PPG4Ceteareth12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4-CETETH-1	PPG4Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4-CETETH-10	PPG4Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4-CETETH-20	PPG4Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4-CETETH-5	PPG4Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4-DECETH-4	PPG4Deceth4		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4-ISODECETH-10	PPG4Isodeceth10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-4-LAURETH-15	PPG4Laureth15		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-40-PEG-60 LANOLIN OIL	Ppg40Peg60 Lanolin Oil		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-40-PEG-60 LANOLIN OIL	PPG-40-PEG-60 LANOLIN OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-5 CETEARETH-10 PHOSPHATE	Ppg5 Ceteareth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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PPG-5 LANOLIN ALCOHOL ETHER	PPG-5 LANOLIN ALCOHOL ETHER	68439-53-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PPG-5 LANOLIN WAX	PPG5 LANOLIN WAX		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
PPG-5 TOCOPHERETH-2	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PPG-5 TOCOPHERYL ETHER	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PPG-5-BUTETH-5	PPG5Buteth5	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.5%	
PPG-5-CETEARETH-20	Ppg5Ceteareth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-10 PHOSPHATE	Ppg5Ceteth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG8Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG8Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG8Ceteth2	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG8Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG8Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG4Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-5-CETETH-20	PPG4Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG4Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG4Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG2Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG2Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG2Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG2Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG1Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG1Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG1Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-5-CETETH-20	PPG1Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-CETETH-20	PPG5Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-5-LAURETH-5	PPG5Laureth5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-52 BUTYL ETHER	PPG52 BUTYL ETHER	9003-13-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 23%	
PPG-6 C12-15 PARETH-12	PPG6 C1215 Pareth12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6 C9-11 PARETH-5	PPG6 C911 Pareth5	154518-36-2	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6 DECYLTETRADECETH-30	Ppg6 Decyltetradeceth30		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6 TRIDECETH-8	PPG6 Trideceth8		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6-DECETH-4	Ppg6Deceth4		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6-DECETH-4	PPG-6-DECETH-4		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PPG-6-DECETH-9	Ppg6Deceth9		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6-DECETH-9	PPG-6-DECETH-9		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-6-DECYL TETRADECETH-12	PPG6Decyltetradeceth12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6-DECYL TETRADECETH-20	PPG6Decyltetradeceth20		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-6-LAURETH-3	PPG6Laureth3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-65-PEG-5 PENTAERYTHRITYL ETHER	Ppg65Peg5 Pentaerythrityl Ether		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-68-PEG-10 TRIMETHYLOLPROPANE	Ppg68Peg10 Trimethylolpropane		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-7-BUTETH-10	PPG7Buteth10	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.023%	
PPG-7-BUTETH-4	PPG7Buteth4	9038-95-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 4%	
PPG-70 TOCOPHEREETH-100	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
PPG-75-PEG-300 HEXYLENE GLYCOL	Ppg75Peg300 Hexylene Glycol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-8 DECETH-6	Ppg8 Deceth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-8-CETETH-1	PPG8Ceteth1	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-8-CETETH-10	PPG8Ceteth10	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PPG-8-CETETH-2	PPG8Ceteth2	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-8-CETETH-20	PPG8Ceteth20	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG-8-CETETH-5	PPG8Ceteth5	9087530	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG/ PEG-18 DIMETHICONE	Ppg/ Peg18 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG/ PEG-18 DIMETHICONE	PPG/ PEG-18 DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PPG/PEG-10/2 GLYCERYL COCOATE	Ppg/peg10/2 Glyceryl Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PPG/PEG-2/10 GLYCERYL COCOATE	Ppg/peg2/10 Glyceryl Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PREZATIDE COPPER ACETATE	PREZATIDE COPPER ACETATE	130120-57-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PROLINE	PROLINE	609-36-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PROPANE	propane	74986	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 24%.	
PROPANEDIOL DICAPRYLATE	PROPANEDIOL DICAPRYLATE	1020852-63-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PROPANOL	PROPYL ALCOHOL	71-23-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
PROPIONANILIDE, N-(1-PHENETHYL-4-PIPERIDYL)-	PROPIONANILIDE, N-(1-PHENETHYL-4-PIPERIDYL)-	437-38-7	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagens	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PROPOXYTETRAMETHYL PIPERIDINYL DIMETHICONE	PROPOXYTETRAMETHYL PIPERIDINYL DIMETHICONE	171543-65-0	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
PROPYL BENZOATE	Benzoate	2315-68-6	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
PROPYL GALLATE	PROPYL GALLATE	121799	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
PROPYLENE CARBONATE	propylene carbonate	108327	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
PROPYLENE GLYCOL ALGINATE	PROPYLENE GLYCOL ALGINATE	9005-37-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PROPYLENE GLYCOL BEHENATE	PROPYLENE GLYCOL BEHENATE	27923-61-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL CAPRYLATE	PROPYLENE GLYCOL CAPRYLATE	31565-12-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL CETETH-3 ACETATE	Propylene Glycol Ceteth3 Acetate	93385036	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PROPYLENE GLYCOL CETETH-3 PROPIONATE	Propylene Glycol Ceteth3 Propionate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PROPYLENE GLYCOL COCOATE	PROPYLENE GLYCOL COCOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL DICAPROATE	PROPYLENE GLYCOL DICAPROATE	50343-36-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL DICAPRYLATE/DICAPRATE	PROPYLENE GLYCOL DICAPRYLATE/DICAPRATE	58748279	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 51.8%.	
PROPYLENE GLYCOL DIETHYLHEXANOATE	PROPYLENE GLYCOL DIETHYLHEXANOATE	93981-97-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL DIPELARGONATE	PROPYLENE GLYCOL DIPELARGONATE	41395-83-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL DISTEARATE	PROPYLENE GLYCOL DISTEARATE	6182-11-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL HEPTANOATE	PROPYLENE GLYCOL HEPTANOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL ISOCETETH-3 ACETATE	Propylene glycol isoceteth3 acetate	178900237	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PROPYLENE GLYCOL ISODECETH-12	Propylene Glycol Isodeceth12		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PROPYLENE GLYCOL ISODECETH-4	Propylene Glycol Isodeceth4		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PROPYLENE GLYCOL LAURETH-6	Propylene Glycol Laureth6		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PROPYLENE GLYCOL LINOLEATE	PROPYLENE GLYCOL LINOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL LINOLENATE	PROPYLENE GLYCOL LINOLENATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLENE GLYCOL METHYL ETHER	Methoxyisopropanol	107982	Health Canada bans this ingredient from use in cosmetics if it contains at least 0.5% 2methoxypropanol.	
PROPYLENE GLYCOL METHYL ETHER ACETATE	METHOXYISOPROPYLACETATE	108-65-6	Health Canada bans this ingredient from use in cosmetics if it contains at least 0.5% total of 2methoxypropanol and/or 2methoxypropylacetate.	
PROPYLENE GLYCOL OLETH-5	Propylene Glycol Oleth5		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PROPYLENE GLYCOL SOYATE	PROPYLENE GLYCOL SOYATE	67784-79-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PROPYLIDENE PHTHALIDE	PROPYLIDENE PHTHALIDE	17369594	The European Commission restricts this ingredient to a maximum concentration of 0.01% in nonoral products.	
PROPYLIDENE PHTHALIDE	3PROPYLIDENEPHTHALIDE	17369594	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in lip products, 0.01% in deodorants/antiperspirants, 0.01% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.01% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.01% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.7% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.01% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.01% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PROPYLIDENE PHTHALIDE	3PROPYLIDENEPHTHALIDE	17369594	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.071 % Category 2) 0.021 % Category 3) 0.42 % Category 4) 0.40 % Category 5A) 0.10 % Category 5B) 0.10 % Category 5C) 0.10 % Category 5D) 0.10 % Category 6) 0.23 % Category 7A) 0.81 % Category 7B) 0.81 % Category 8) 0.041 % Category 9) 0.77 % Category 10A) 2.8 % Category 10B) 2.8 % Category 11A) 1.5 % Category 11B) 1.5 % Category 12) No Restriction	
PROPYLPARABEN	Propylparaben	94133	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.4% when used alone and 0.8% when used with a paraben mixture.	
PROTEINASE, BACILLUS ALKALINE	Esperase	9073772	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PROTEINASE, STREPTOMYCES GRISEUS	Pronase	9036060	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PRUNUS AFRICANA (AFRICAN CHERRY)	African Cherry		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PRUNUS AMYGDALUS DULCIS (SWEET ALMOND) OIL UNSAPONIFIABLES	PRUNUS AMYGDALUS DULCIS (SWEET ALMOND) OIL UNSAPONIFIABLES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PRUNUS AMYGDALUS DULCIS (SWEET ALMOND) SEED MEAL	PRUNUS AMYGDALUS DULCIS (SWEET ALMOND) SEED MEAL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PRUNUS AMYGDALUS DULCIS (SWEET ALMOND) SHELL POWDER	Almond Shell Dust (Prunus dulcis)		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PRUNUS AVIUM (WILD CHERRY) SEED OIL	PRUNUS AVIUM (SWEET CHERRY) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.02%.	
PRUNUS DOMESTICA (PLUM) SEED EXTRACT	PRUNUS DOMESTICA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.04%	
PRUNUS DOMESTICA (PLUM) SEED OIL	PRUNUS DOMESTICA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.04%	
PRUNUS PERSICA (PEACH)	PRUNUS PERSICA (PEACH)		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
PRUNUS PERSICA (PEACH) KERNEL OIL	PRUNUS PERSICA (PEACH) KERNEL OIL	8002-78-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 22%	
PSYLLIUM GUM	Psyllium	8063169	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PTFE (TEFLON)	PTFE (TEFLON)	9002-84-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PULLULAN	PULLULAN	9057-02-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PUMPKIN SEED OIL PEG-8 ESTERS	Pumpkin Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
PUMPKIN SEED OIL PEG-8 ESTERS	PUMPKIN SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
PUNICA GRANATUM (POMEGRANATE) FRUIT JUICE	PUNICA GRANATUM (POMEGRANATE) FRUIT JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PUNICA GRANATUM (POMEGRANATE) SEED OIL	PUNICA GRANATUM SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PUNICA GRANATUM (POMEGRANATE) SEED POWDER	PUNICA GRANATUM (POMEGRANATE) SEED POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PUNICA GRANATUM JUICE EXTRACT	PUNICA GRANATUM JUICE EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PUNICA GRANATUM SEED	PUNICA GRANATUM SEED		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PVM/ MA COPOLYMER	PVM/MA COPOLYMER	9011-16-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 13%.	
PVP-HYDROGEN PEROXIDE	PVPHYDROGEN PEROXIDE	135927365	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. Concentration of H2O2 2 percent or	
PVP/DECENE COPOLYMER	PVP/DECENE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PVP/VA/ITACONIC ACID COPOLYMER	PVP/VA/ITACONIC ACID COPOLYMER	68928-72-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PVP/VA/VINYL PROPIONATE COPOLYMER	PVP/VA/VINYL PROPIONATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
PYRETHRINS	Pyrethrins	8003-34-7	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
PYRIDINE, ALKYL DERIVS.	Pyridine, alkyl derivs.	68391117	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	
PYRIDINIUM, 1-((4-AMINO-2-PROPYL-5-PYRIMIDINYL)METHYL)-2-METHYL-, CHLORIDE	Amprolium	137882	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
PYROPHYLLITE	CLAYS AND MINERALS	12269-78-2	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
PYROPHYLLITE	PYROPHYLLITE	12269-78-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
PYRROLIZIDINE ALKALOIDS	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.		Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
PYRUS MALUS (APPLE) FIBER	PYRUS MALUS (APPLE) FIBER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
Pyrus Malus (Apple) Flower Extract	Pyrus Malus (Apple) Flower Extract	85251-63-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) FRUIT	PYRUS MALUS (APPLE) FRUIT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) FRUIT EXTRACT	PYRUS MALUS (APPLE) FRUIT EXTRACT	85251-63-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) FRUIT WATER	PYRUS MALUS (APPLE) FRUIT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) JUICE	PYRUS MALUS (APPLE) JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) LEAF EXTRACT	PYRUS MALUS (APPLE) LEAF EXTRACT	85251-63-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) PECTIN EXTRACT	PYRUS MALUS (APPLE) PECTIN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) PEEL WAX	PYRUS MALUS (APPLE) PEEL WAX		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
PYRUS MALUS (APPLE) SEED EXTRACT	PYRUS MALUS (APPLE) SEED EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
Quaternary ammonium compounds, benzyl-C10-16-alkyldimethyl, chlorides	BenzylC1016alkyldimethyl, chlorides	68989004	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES	63449-41-2	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
QUATERNIUM-10	STEARTRIMONIUM CHLORIDE	112-03-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.25% in leaveon products.	
QUATERNIUM-10	QUATERNIUM-10	112-03-8	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
QUATERNIUM-14	QUATERNIUM-14	27479-28-3	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
QUATERNIUM-15	Quaternium15	4080313	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
QUATERNIUM-15	Methenamine 3chloroallylochloride	4080313	(*) The European Commission restricts this ingredient to a maximum concentration of 0.20%	
QUATERNIUM-18	QUATERNIUM18	61789-80-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
QUATERNIUM-18 BENTONITE	QUATERNIUM18 BENTONITE	68953-58-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%.	
QUATERNIUM-18 BENTONITE	CLAYS AND MINERALS	68953-58-2	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
QUATERNIUM-18 HECTORITE	QUATERNIUM18 HECTORITE	12001-31-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products.	
QUATERNIUM-18 HECTORITE	CLAYS AND MINERALS	12001-31-9	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
QUATERNIUM-18 MAGNESIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
QUATERNIUM-18/BENZALKONIUM BENTONITE	QUATERNIUM-18/BENZALKONIUM BENTONITE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
QUATERNIUM-22	QUATERNIUM22	51812-80-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
QUATERNIUM-26	QUATERNIUM26	68953-64-0	The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
QUATERNIUM-53	Quaternium53	68410-69-5	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
QUATERNIUM-90 BENTONITE	QUATERNIUM-90 BENTONITE	226226-22-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
QUERCUS (OAK)	Quercus		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
QUILLAJA SAPONARIA (SOAPBARK) BARK	Quillaja Bark		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
QUILLAJA SAPONARIA (SOAPBARK) BARK	Quillaja Bark		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
QUININE	QUININE	130950	The European Commission restricts this ingredient to a maximum concentration of 0.5% (as quinine base) in hair rinseoff products and 0.2% (as quinine base) in hair leaveon products.	
RAPESEED OIL PEG-20 ESTERS	Rapeseed Oil Peg20 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
RAPESEED OIL PEG-20 ESTERS	RAPESEED OIL PEG-20 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
RAPESEED OIL PEG-3 ESTERS	Rapeseed Oil Peg3 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
RAPESEED OIL PEG-3 ESTERS	RAPESEED OIL PEG-3 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
RASPBERRY KETONE	4(4Hydroxyphenyl)butan2one	5471512	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.68 % Category 2) 1.0 % Category 3) 0.27 % Category 4) 1.0 % Category 5A) 1.0 % Category 5B) 0.14 % Category 5C) 0.27 % Category 5D) 0.045 % Category 6) 0.82 % Category 7A) 0.41 % Category 7B) 0.41 % Category 8) 0.045 % Category 9) 1.0 % Category 10A) 1.0 % Category 10B) 1.0 % Category 11A) 0.045 % Category 11B) 0.045 % Category 12) 78 %	
RASPBERRY SEED OIL PEG-8 ESTERS	Raspberry Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
RASPBERRY SEED OIL PEG-8 ESTERS	RASPBERRY SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
Red 33	Red 33	3567-66-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
RED ALGAE CAREGEENAN	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
RED ALGAE GEL	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
RED CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
RED PETROLATUM	RED PETROLATUM		The European Commission bans this ingredient from use in cosmetics if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.	
RENNET	RENNET	9042084	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
RESORCINOL	Resorcinol	108463	The European Commission restricts this ingredient to a maximum concentration of 1.25% applied to hair or eyelashes after mixing under oxidative conditions in oxidative hair dyes and products intended for coloring eyelashes, and 0.5% in hair lotions and shampoos. Required Warning: The European Commission requires the following on the product label/package of oxidative hair dyes: The mixing ratio; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Do not colour your hair if: — you have a rash on your face or sensitive, irritated and damaged scalp, — you have ever experienced any reaction after colouring your hair, — you have experienced a reaction to a temporary 'black henna' tattoo in the past.' The European commission requires the following on the product label/package of products intended for coloring eyelashes: The mixing ratio; 'For professional use only.'; 'Hair colorants can cause severe allergic reactions.'; 'Read and follow instructions.'; 'This product is not intended for use on persons under the age of 16.'; 'Temporary 'black henna' tattoos may increase your risk of allergy.'; 'Eyelashes shall not be coloured if the consumer: — has a rash on the face or sensitive, irritated and damaged scalp, — has experienced any reaction after colouring hair or eyelashes, — has experienced a reaction to a temporary 'black henna' tattoo in the past'; 'Rinse eyes immediately if product comes into contact with them.' Lastly, the European Commission requires the following on the product label/package of hair lotions and shampoos:	
RESORCINOL	Resorcinol	108463	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RESORCINOL	Resorcin	108-46-3	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1%.	
RESORCINOL	RESORCINOL	108-46-3	Per COSING, after mixing under oxidative conditions the maximum concentration applied to hair or eyelashes must not exceed 1.25%.	x
RETINOIC ACID	retinyl palmitate	302-79-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINOIC ACID	RETINYLPALMITATE	79812	Health Canada restricts this ingredient to a maximum concentration of 1.83%.	
RETINOL (VITAMIN A)	Retinol	11103-57-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINOL (VITAMIN A)	retinyl palmitate	11103-57-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINOL (VITAMIN A)	Retinol	68268	Health Canada restricts this ingredient to a maximum concentration of 1% (as retinol equivalents).	
RETINOL (VITAMIN A)	RETINYLPALMITATE	79812	Health Canada restricts this ingredient to a maximum concentration of 1.83%.	
RETINOL/GLYCOLIC ACID POLYMER	Retinol		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINOL/GLYCOLIC ACID POLYMER	Glycolic Acid	79141	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 at final formulation when formulated to avoid increasing sun sensitivity or when directions for use include the daily use of sun protection. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
RETINOL/GLYCOLIC ACID POLYMER	GLYCOLICACID	79141	Health Canada restricts this ingredient to a maximum concentration of 10% and a minimum pH of 3.5. Additionally, preparations containing concentrations of AHAs between 10% and 30% or a pH between 3.0 to 3.5 may be permitted for professional use if the manufacturer provides Health Canada with evidence of their safety including pH levels, AHA concentrations, directions for use, and clinical studies demonstrating minimal skin irritation. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%. Required Warning: Health Canada requires the following on the product label/package in all skin products containing AHAs at concentrations equal to or greater than 3%: 'Use only as directed'; 'Avoid contact with the eyes'; 'If irritation persists, discontinue use and consult a physician'; 'It is recommended that prior to exposure to the sun, users cover areas where AHAs have been applied with sunscreen'; 'Contact of the product with the skin must be of limited frequency or duration.'	
RETINOL/GLYCOLIC ACID POLYMER	Retinol	68268	Health Canada restricts this ingredient to a maximum concentration of 1% (as retinol equivalents).	
RETINYL ACETATE (VITMIN A ACETATE)	Retinol	127-47-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINYL ACETATE (VITMIN A ACETATE)	retinyl palmitate	127-47-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINYL ACETATE (VITMIN A ACETATE)	Retinol	68268	Health Canada restricts this ingredient to a maximum concentration of 1% (as retinol equivalents).	
RETINYL ACETATE (VITMIN A ACETATE)	RETINYLACETATE	127479	Health Canada restricts this ingredient to a maximum concentration of 1.15%.	
RETINYL ACETATE (VITMIN A ACETATE)	RETINYLPALMITATE	79812	Health Canada restricts this ingredient to a maximum concentration of 1.83%.	
RETINYL LINOLEATE	Retinol	631-89-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINYL LINOLEATE	Retinol	68268	Health Canada restricts this ingredient to a maximum concentration of 1% (as retinol equivalents).	
RETINYL PALMITATE (VITAMIN A PALMITATE)	retinyl palmitate	79-81-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINYL PALMITATE (VITAMIN A PALMITATE)	RETINYLPALMITATE	79812	Health Canada restricts this ingredient to a maximum concentration of 1.83%.	
RETINYL PROPIONATE	Retinol	7069-42-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
RETINYL PROPIONATE	Retinol	68268	Health Canada restricts this ingredient to a maximum concentration of 1% (as retinol equivalents).	
RHAMNOSE	RHAMNOSE	3615-41-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
RHIZOBIAN GUM	RHIZOBIAN GUM		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
RHODINOLS	Citronellol	141253	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.8% in lip products, 1.1% in deodorants/antiperspirants, 4.4% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 13.3% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 7% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 21.4% in mouthwashes, breath sprays, and toothpastes, 2.2% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
RHODINOLS	Citronellol	141253	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 2.2% Category 2) 0.67% Category 3) 13% Category 4) 12% Category 5A) 3.2% Category 5B) 3.2% Category 5C) 3.2% Category 5D) 3.2% Category 6) 7.3% Category 7A) 25% Category 7B) 25% Category 8) 1.3% Category 9) 24% Category 10A) 87% Category 10B) 87% Category 11A) 48% Category 11B) 48% Category 12) No Restriction	
RHODIUM	Rhodium	7440166	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
RHUS SUCCEDANEA (JAPANESE) FRUIT WAX	RHUS SUCCEDANEA (JAPANESE) FRUIT WAX	8001-39-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
RIBES NIGRUM (BLACKCURRANT) SEED OIL	Ribes Nigrum (Black Currant) Seed Oil	97676-19-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.3%	
RIBOFLAVIN	RIBOFLAVIN	83-88-5	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E101)	x
RIBOSE, D-	RIBOSE, D-	50-69-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
RICE AMINO ACIDS	RICE AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
RICE BRAN ACID	ORYZA SATIVA (RICE) BRAN ACID	93165-33-4	The Cosmetic Ingredient Review restricts this ingredient in that it cannot contain significant levels of pesticide residues or heavy metals.	
RICEBRANAMIDE DEA	RICEBRANAMIDE DEA		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
RICEBRANAMIDE DEA	RICEBRANAMIDE DEA		The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
RICHINOLETH-18	Richinoleth18		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
RICINOLEAMIDE DEA	RICINOLEAMIDE DEA	40716425	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
RICINOLEAMIDE DEA	RICINOLEAMIDE DEA	40716-42-5	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
RICINOLEAMIDE MEA	RICINOLEAMIDE MEA	106-16-1	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
RICINOLEAMIDE MIPA	RICINOLEAMIDE MIPA	40986-29-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
RICINOLEAMIDOPROPYL BETAINE	ricinoleamidopropyl betaine	71850812	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
RICINOLEAMIDOPROPYL DIMETHYLAMINE	Ricinoleamidopropyl dimethylamine	20457754	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
RICINOLEIC/CAPROIC/CAPRYLIC/CAPRIC TRIGLYCERIDE	RICINOLEIC/CAPROIC/CAPRYLIC/CAPRIC TRIGLYCERIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
RICINOLETH-40	Ricinoleth40		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
ROSA ALBA FLOWER OIL	ROSA ALBA FLOWER OIL	93334-48-6	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	x
ROSA CANINA (DOG ROSE) FLOWER EXTRACT	Rosa Canina Flower Extract		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.04%	
ROSA CANINA (DOG ROSE) FRUIT EXTRACT	Rosa Canina Fruit Extract	84696-47-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.25%	
ROSA CANINA (DOG ROSE) SEED EXTRACT	Rosa Canina Seed Extract	84696-47-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1.5%	
ROSA CANINA FLOWER	Rosa Canina Flower		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.5%	
ROSA CANINA FRUIT	Rosa Canina Fruit		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.0003%	
ROSA DAMASCENA (ROSE)	ROSA DAMASCENA (ROSE)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ROSA DAMASCENA (ROSE)	ROSA DAMASCENA (ROSE)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ROSA DAMASCENA (ROSE) FLOWER	ROSA DAMASCENA (ROSE) FLOWER		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ROSA DAMASCENA (ROSE) FLOWER	ROSA DAMASCENA (ROSE) FLOWER		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ROSA DAMASCENA (ROSE) FLOWER OIL	ROSA DAMASCENA (ROSE) OIL		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ROSA DAMASCENA (ROSE) FLOWER OIL	ROSA DAMASCENA (ROSE) OIL		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ROSA DAMASCENA EXTRACT	ROSA DAMASCENA (ROSE) EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ROSA DAMASCENA EXTRACT	ROSA DAMASCENA (ROSE) EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ROSA DAMASCENA FLOWER EXTRACT	ROSA DAMASCENA (ROSE) FLOWER EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ROSA DAMASCENA FLOWER EXTRACT	ROSA DAMASCENA (ROSE) FLOWER EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ROSA DAMASCENA FLOWER WATER	ROSA DAMASCENA (BULGARIAN ROSE) WATER		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
ROSA DAMASCENA FLOWER WATER	ROSA DAMASCENA (BULGARIAN ROSE) WATER		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
ROSA HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
ROSA HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
ROSA HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
ROSA RUBIGINOSA SEED OIL PEG-8 ESTERS	Rosa Rubiginosa Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ROSE HIPS	ROSE HIPS		EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
ROSE KETONE-3	ROSE KETONE3	57378684	The European Commission restricts this ingredient to a maximum concentration of 0.02% in nonoral products.	
ROSE KETONE-3	Rose ketones	57378684	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ROSE KETONE-3	Rose ketones	57378684	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
ROSE KETONE-4	ROSE KETONE4	23696857	The European Commission restricts this ingredient to a maximum concentration of 0.02% in nonoral products.	
ROSE KETONE-4	Rose ketones	23696857	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ROSE KETONE-4	Rose ketones	23696857	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
ROSE KETONE-5	ROSE KETONE5	33673711	The European Commission restricts this ingredient to a maximum concentration of 0.02%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ROSE KETONE-5	Rose ketones	33673711	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
ROSE KETONE-5	Rose ketones	33673711	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
ROSMARINUS OFFICINALIS (ROSEMARY) EXTRACT	ROSMARINUS OFFICINALIS (ROSEMARY) EXTRACT	84604-14-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROSMARINUS OFFICINALIS (ROSEMARY) FLOWER EXTRACT	ROSMARINUS OFFICINALIS (ROSEMARY) FLOWER EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROSMARINUS OFFICINALIS (ROSEMARY) LEAF	ROSMARINUS OFFICINALIS (ROSEMARY) LEAF		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROSMARINUS OFFICINALIS (ROSEMARY) LEAF EXTRACT	ROSMARINUS OFFICINALIS (ROSEMARY) LEAF EXTRACT	84604-14-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROSMARINUS OFFICINALIS (ROSEMARY) LEAF OIL	ROSMARINUS OFFICINALIS (ROSEMARY) LEAF OIL	8000-25-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROSMARINUS OFFICINALIS (ROSEMARY) LEAF POWDER	ROSMARINUS OFFICINALIS (ROSEMARY) LEAF POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROSMARINUS OFFICINALIS (ROSEMARY) LEAF WATER	ROSMARINUS OFFICINALIS (ROSEMARY) LEAF WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROSMARINUS OFFICINALIS (ROSEMARY) WATER	ROSMARINUS OFFICINALIS (ROSEMARY) WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
ROYAL JELLY	Royal jelly	8031-67-2	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
RUBUS CHAMAEMORUS SEED OIL	RUBUS CHAMAMORUS SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.1%	
RUBUS CHAMAEMORUS SEED OIL	RUBUS CHAMAEMORUS SEED OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
RUBUS IDAEUS (RASPBERRY) SEED OIL	Rubus Idaeus (Raspberry) Seed Oil		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 5%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
RUTA GRAVEOLENS (RUE) EXTRACT	RUTA GRAVEOLENS (RUE) EXTRACT	84929475	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
RUTA GRAVEOLENS (RUE) EXTRACT	Rue oil	84929475	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.15% Category 2) 0.15% Category 3) 0.15% Category 4) 0.15% Category 5A) 0.15% Category 5B) 0.15% Category 5C) 0.15% Category 5D) 0.15% Category 6) 0.15% Category 7A) no restriction Category 7B) 0.15% Category 8) 0.15% Category 9) no restriction Category 10A) no restriction Category 10B) 0.15% Category 11A) no restriction Category 11B) 0.15% Category 12) no restriction	
RUTA GRAVEOLENS (RUE) OIL	RUTA GRAVEOLENS (RUE) OIL	8014297	The European Commission restricts this ingredient's furocoumarines content (e.g. trioxysalen (INN), 8methoxypsoralen, 5methoxypsoralen) to below 1 mg/kg in sun protection and bronzing products (except for normal content in natural essences used).	
RUTA GRAVEOLENS (RUE) OIL	Rue oil	8014297	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.15% in leaveon products	
RUTA GRAVEOLENS (RUE) OIL	Rue oil	8014297	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.15% Category 2) 0.15% Category 3) 0.15% Category 4) 0.15% Category 5A) 0.15% Category 5B) 0.15% Category 5C) 0.15% Category 5D) 0.15% Category 6) 0.15% Category 7A) no restriction Category 7B) 0.15% Category 8) 0.15% Category 9) no restriction Category 10A) no restriction Category 10B) 0.15% Category 11A) no restriction Category 11B) 0.15% Category 12) no restriction	
RUTA GRAVEOLENS (RUE) OIL	Rue oil	84929475	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.15% Category 2) 0.15% Category 3) 0.15% Category 4) 0.15% Category 5A) 0.15% Category 5B) 0.15% Category 5C) 0.15% Category 5D) 0.15% Category 6) 0.15% Category 7A) no restriction Category 7B) 0.15% Category 8) 0.15% Category 9) no restriction Category 10A) no restriction Category 10B) 0.15% Category 11A) no restriction Category 11B) 0.15% Category 12) no restriction	
RUTILE	CLAYS AND MINERALS	1317-80-2	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
RUTILE	RUTILE	1317-80-2	Per the U.S. FDA., titanium dioxide shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 1 part per million. Antimony (as Sb), not more than 2 parts per million. Mercury (as Hg), not more than 1 part per million. Loss on ignition at 800 °C. (after drying for 3 hours at 105 °C.), not more than 0.5 percent. Water soluble substances, not more than 0.3 percent. Acid soluble substances, not more than 0.5 percent. TiO2, not less than 99.0 percent after drying for 3 hours at 105 °C. Lead, arsenic, and antimony shall be determined in the solution obtained by boiling 10 grams of the titanium dioxide for 15 minutes in 50 milliliters of 0.5N hydrochloric acid.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
S-TRIAZINE, 4,6-DIAMINO-2-NONOXY-	STriazine, 4,6Diamino2Nonoxy	19619-57-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SACCHARIDE HYDROLYSATE	SACCHARIDE HYDROLYSATE	8013-17-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Saccharina japonica	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
Saccharina japonica extract	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
Saccharina japonica extract	Saccharina japonica extract	92128-82-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Saccharina japonica extract	Saccharina japonica extract	92128-82-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Saccharina japonica extract	Saccharina japonica extract	92128-82-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SACCHAROMYCES/ ZINC FERMENT	SACCHAROMYCES/ ZINC FERMENT		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
SACCHAROMYCES/LAMINARIA SACCHARINA FERMENT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
Saccharomyces/Sugarcane Juice Extract Ferment Extract	Saccharomyces/Sugarcane Juice Extract Ferment Extract		The 2022 CIR Safety Assessment of Saccharum officinarum (Sugarcane)-Derived Ingredients as Used in Cosmetics states that sugarcane-derived ingredients, specifically sugar cane juice extract, are likely to be contaminated with PAHs, heavy metals (iron, zinc, manganese, copper, lead, cadmium, nickel, and cobalt), and pesticide residues.	x
SACCHAROMYCES/ZINC/IRON/GERMANIUM/COPPER/MAGNESIUM/SILICON FERMENT	SACCHAROMYCES/ZINC/IRON/GERMANIUM/COPPER/MAGNESIUM/SILICON FERMENT		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
SACCHARUM OFFICINARUM (SUGAR CANE)	SACCHARUM OFFICINARUM (SUGAR CANE)		Per the Cosmetic Ingredient Review (CIR) February 2022 Safety Assessment of Saccharum officinarum (Sugarcane)-Derived Ingredients as Used in Cosmetics, sugarcane-derived ingredients may be contaminated with polycyclic aromatic hydrocarbons (PAHs) due to the burning that occurs during the harvest.	x
SACCHARUM OFFICINARUM (SUGAR CANE) EXTRACT	SACCHARUM OFFICINARUM (SUGAR CANE) EXTRACT	91722-22-4	Per the Cosmetic Ingredient Review (CIR) February 2022 Safety Assessment of Saccharum officinarum (Sugarcane)-Derived Ingredients as Used in Cosmetics, sugarcane-derived ingredients may be contaminated with polycyclic aromatic hydrocarbons (PAHs) due to the burning that occurs during the harvest.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SACCHARUM OFFICINARUM (SUGAR CANE) JUICE	SACCHARUM OFFICINARUM (SUGAR CANE) JUICE		Per the Cosmetic Ingredient Review (CIR) February 2022 Safety Assessment of Saccharum officinarum (Sugarcane)-Derived Ingredients as Used in Cosmetics, sugarcane-derived ingredients may be contaminated with polycyclic aromatic hydrocarbons (PAHs) due to the burning that occurs during the harvest.	x
SACCHARUM OFFICINARUM FERMENT EXTRACT	SACCHARUM OFFICINARUM FERMENT EXTRACT	91770-72-8	Per the Cosmetic Ingredient Review (CIR) February 2022 Safety Assessment of Saccharum officinarum (Sugarcane)-Derived Ingredients as Used in Cosmetics, sugarcane-derived ingredients may be contaminated with polycyclic aromatic hydrocarbons (PAHs) due to the burning that occurs during the harvest.	x
SACHARINA ANGUSTATA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SAFFLOWER SEED OIL PEG-8 ESTERS	Safflower Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SAFFLOWER SEED OIL PEG-8 ESTERS	SAFFLOWER SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SALICYLIC ACID	Salicylic acid	69727	The European Commission restricts this ingredient to a maximum concentration of 3% in rinseoff hair products and 2% in all other products. Required Warning: The European Commission requires the following warning text on the label/package: 'Not to be used in preparations for children under 3 years of age, except for shampoos'	
SALICYLIC ACID	SALICYLICACID	69727	Health Canada restricts this ingredient to a maximum concentration of 2%.	
SALICYLIC ACID	SALICYLICACID	69-72-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.2%.	
SALICYLIC ACID	Benzoic acid, 2hydroxy	69727	Europe restricts this chemical: Maximum concentration in ready for use preparation: (a) Rinseoff hair products 3.0%, (b) Other products except body lotion, eye shadow, mascara, eyeliner, lipstick, roll on deodorant 2.0%; a) Not to be used in preparations for children under 3 years of age. Not to be used in applications that may lead to exposure of the end user,Às lungs by inhalation. Not to be used in oral products. b) For purposes other than inhibiting the development of microorganisms in the product. This purpose has to be apparent from the presentation of the product.	
SALICYLIC ACID	Salicylic acid	69727	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.5%; Not to be used in products for children under 3 years of age; Not to be used in oral products; Not to be used in applications that may lead to exposure of the enduser,Às lungs by inhalation. Required warning: Not to be used for children under 3 years of age**. **Solely for products which might be used for children under 3 years of age.	
SALICYLIC ACID	SALICYLIC ACID	69-72-7	Per COSING, the maximum concentration in RTU preparation is 0.5%. This ingredient is not to be used in products for children under 3 years of age, in oral products, or in applications that may lead to exposure of the end-user's lungs by inhalation.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SALICYLIC ACID, ION(1-)	Salicylate	63-36-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 1%.	
SAPONIFIED CANNABIS SATIVA (HEMP) OIL	CANNABIDIOL	13956291	FDA restriction on THC concentrations of industrial hemp and derivatives cannot exceed 0.3%.	x
SAPONIFIED CANNABIS SATIVA (HEMP) OIL	CANNABIDIOL		This ingredient is prohibited from use in European cosmetic products if it is prepared as an extract or tincture or resin of Cannabis from the flowering or fruiting tops of the cannabis plant. This ingredient may be used in cosmetics when obtained from cannabis, cannabis resin, cannabis extracts and cannabis tinctures originating from the seeds and leaves that are not accompanied with the fruiting tops of the cannabis plant and if the level of THC does not exceed 0.2%.	x
SARGASSEM FILIPENDULA (SEAWEED) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM FILIPENDULA (SARGASSUM WEED) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM FILIPENDULA (SARGASSUM WEED) EXTRACT	SARGASSUM FILIPENDULA (SARGASSUM WEED) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SARGASSUM FUSIFORME EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM FUSIFORME EXTRACT	SARGASSUM FUSIFORME EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SARGASSUM FUSIFORME POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM MUTICUM EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM MUTICUM EXTRACT	SARGASSUM MUTICUM EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SARGASSUM PALLIDUM (SARGASSUM WEED)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SARGASSUM PALLIDUM (SARGASSUM WEED) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM PALLIDUM (SARGASSUM WEED) EXTRACT	SARGASSUM PALLIDUM (SARGASSUM WEED) EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SARGASSUM PALLIDUM POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM SEA MINERALS	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
SARGASSUM SEA MINERALS	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM VULGARE EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SARGASSUM VULGARE EXTRACT	SARGASSUM VULGARE EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SASSAFRAS OFFICINALE BARK/ROOT EXTRACT	SASSAFRAS OFFICINALE BARK/ROOT EXTRACT		The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
SASSAFRAS OFFICINALE ROOT OIL	SASSAFRAS OFFICINALE ROOT OIL	8006802	The European Commission restricts this ingredient's safrole content (except for normal content in the natural essences used) to below 100ppm in the finished product, 50 ppm in products for dental and oral hygiene, and is not allowed in toothpastes intended specifically for children.	
SASSAFRAS OFFICINALE ROOT OIL	SASSAFRAS OFFICINALE ROOT OIL	8006802	Products containing this substance must contain less than 0.01% safrole as indicated by the International Fragrance Association	
SCENTENAL	SCENTENAL	86803909	The European Commission restricts this ingredient to a maximum concentration of 0.5%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SCENTENAL	Methoxy dicyclopentadiene carboxaldehyde (Scentenal)	86803909	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.1% in lip products, 0.2% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.5% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 3.6% in mouthwashes, breath sprays, and toothpastes, 0.4% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
SCENTENAL	Methoxy dicyclopentadiene carboxaldehyde	86803909	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.19% Category 2) 0.057% Category 3) 1.2% Category 4) 1.1% Category 5A) 0.27% Category 5B) 0.27% Category 5C) 0.27% Category 5D) 0.091% Category 6) 0.63% Category 7A) 2.2% Category 7B) 2.2% Category 8) 0.091% Category 9) 2.1% Category 10A) 2.1% Category 10B) 7.5% Category 11A) 0.091% Category 11B) 0.091% Category 12) No Restriction	
SCHINZIOPHYTON RAUTANENII KERNEL OIL	SCHINZIOPHYTON RAUTANENII KERNEL OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SCLAREOL	SCLAREOL	515037	The International Fragrance Association requires that the ingredient has a purity of at least 98%.	
SCLEROCARYA BIRREA SEED OIL	SCLEROCARYA BIRREA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
SCLEROCARYA BIRREA SEED OIL	SCLEROCARYA BIRREA SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%	
SCLEROTIUM GUM	SCLEROTIUM GUM	39464-87-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SCUTELLARIA BAICALENSIS EXTRACT	SCUTELLARIA BAICALENSIS EXTRACT	94279-99-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SCUTELLARIA BAICALENSIS ROOT POWDER	SCUTELLARIA BAICALENSIS ROOT POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SD ALCOHOL 3A	SD ALCOHOL 3A		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
SEA ALGAE COMPLEX	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1 ppm, and arsenic; 3 ppm.	x
SEA CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
SEA CLAY EXTRACT	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SEAWEED COMPLEX	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SEBACIC ACID	SEBACIC ACID	111-20-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1% in rinseoff products and 0.03% in leavein products.	
Secondary alcohol ethoxylates	Secondary Alcohol Ethoxylates		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SELENIUM SULFIDE	Selenium sulfide	56093459	The European Commission restricts this ingredient to a maximum concentration of 1.0% Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains selenium disulphide'; 'Avoid contact with eyes or damaged skin'	
SELENIUM SULFIDE	Selenium sulfide	7446346	The European Commission restricts this ingredient to a maximum concentration of 1.0% Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains selenium disulphide'; 'Avoid contact with eyes or damaged skin'	
SELENIUM SULFIDE	Selenium sulfide	7446346	The European Commission restricts this ingredient to a maximum concentration of 1.0% Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains selenium disulphide'; 'Avoid contact with eyes or damaged skin'	
SELENIUM SULFIDE	SELENIUM(IV) DISULFIDE (1:2)	7488564	The European Commission restricts this ingredient to a maximum concentration of 1.0% Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains selenium disulphide'; 'Avoid contact with eyes or damaged skin'	
SELENIUM(IV) DISULFIDE (1:2)	SELENIUM(IV) DISULFIDE (1:2)	7488564	The European Commission restricts this ingredient to a maximum concentration of 1.0% Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains selenium disulphide'; 'Avoid contact with eyes or damaged skin'	
SERICIN	SERICIN	60650-88-6	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
SERICIN	SERICIN	60650-88-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SERINE	SERINE	302-84-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SERUM ALBUMIN	Bovine Serum Albumin	9048-46-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SESAME AMINO ACIDS	SESAME AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SESAMIDE DEA	SESAMIDE DEA	124046351	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SESAMIDE DEA	SESAMIDE DEA	124046-35-1	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
SESAMIDOPROPYL BETAINE	SESAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
SESAMIDOPROPYL DIMETHYLAMINE	Sesamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
SESAMUM INDICUM (SESAME) OIL	SESAMUM INDICUM (SESAME) OIL	8008-74-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SESAMUM INDICUM (SESAME) OIL UNSAPONIFIABLES	SESAMUM INDICUM (SESAME) OIL UNSAPONIFIABLES		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SHEA BUTTER PEG-32 ESTERS	Shea Butter Peg32 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SHEA BUTTER PEG-8 ESTERS	Shea Butter Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SHEA BUTTERAMIDOPROPYL BETAINE	SHEA BUTTERAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
SHELLAC	SHELLAC	9000-59-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
SILANE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILANE, CHLOROTRIMETHYL-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
Silane, dichlorodimethyl-, reaction products with silica	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SILANE, ETHYLTRICHLORO-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILANE, TRICHLOROETHENYL-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILANE, TRIETHOXYVINYL-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA ACRYLATES COPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA AEROGEL	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA ALUMINA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA DIMETHICONE SILYLATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA DIMETHICONE SILYLATE	SILICA DIMETHICONE SILYLATE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
SILICA DIMETHYL SILYLATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SILICA EXTRACT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA GEL	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA GEL LIQUID	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA OIL	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA POLYGLYCERYL-3	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA SILCYLATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA SILYATE ALUMINA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA SILYLATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA, AMORPHOUS	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SILICA, AMORPHOUS	SILICA, AMORPHOUS	7631-86-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SILICA, AMORPHOUS-FUME	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA, CRYSTALLINE - CRISTOBALITE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA, CRYSTALLINE - TRIDYMIT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA, CRYSTALLINE - TRIPOLI	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA, CRYSTALLINE (QUARTZ)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICA, FUMED	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICATE, PORTLAND CEMENT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SILICATE(2-), HEXAFLUORO-	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICATE(2-), HEXAFLUORO-DINITRYL	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICATE(2-), HEXAFLUORO-, ALUMINUM (3:2)	Aluminum Compounds	17099-70-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SILICATE(2-), HEXAFLUORO-, ALUMINUM (3:2)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICATE(2-), HEXAFLUORO-, STRONTIUM	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICATE(2-), HEXAFLUORO-, THALLIUM	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICATE(2-), HEXAFLUORO-, ZINC	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID (H ₂ SiO ₃), DISODIUM SALT, PENTAHYDRATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID (H ₂ SiO ₄), TETRAKIS(1-METHYLPROPYL) ESTER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SILICIC ACID (ORTHO)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID, BERYLLIUM SALT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID, BERYLLIUM ZINC SALT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID, CALCIUM SALT	Calcium silicate	1344952	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
SILICIC ACID, CALCIUM SALT	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID, TETRA(2-ETHYLBUTYL) ESTER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID, TETRAKIS(1,1-DIMETHYLPENTYL) ESTER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID, TETRAKIS(2-CHLOROETHYL) ESTER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICIC ACID, TETRAMETHYL ESTER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILICONE QUATERNIUM-16/GLYCIDOXY DIMETHICONE CROSSPOLYMER	SILICONE QUATERNIUM-16/GLYCIDOXY DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SILICONE QUATERNIUM-16/GLYCIDOXY DIMETHICONE CROSSPOLYMER	SILICONE QUATERNIUM-16/GLYCIDOXY DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
SILICONE QUATERNIUM-16/GLYCIDOXY DIMETHICONE CROSSPOLYMER	SILICONE QUATERNIUM-16/GLYCIDOXY DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SILK	SILK		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SILK AMINO ACIDS	SILK AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SILK EXTRACT	SILK EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SILK POWDER	SILK POWDER	9009-99-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SILOXANES AND SILICONES, DI-ME, REACTION PRODUCTS WITH SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILVER BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SILVER CHLORIDE	Silver chloride deposited on titanium dioxide	7783906	(*) The European Commission restricts this ingredient to a maximum concentration of 0.004% (as AgCl)	
SILVER CITRATE	Silver	7440224	Health Canada restricts this ingredient to a maximum concentration of 0.04% in mouthwashes. Required Warning: Health Canada requires the following warning text on the package/label of products containing silver and/or its salts: 'This product contains silver and/ or silver salts'; 'Avoid contact with broken or abraded skin'.	
SILVER CITRATE	SILVER CITRATE	126-45-4	Per COSING, the maximum concentration in RTU preparation is 0.2% (corresponding to 0.0024% of silver). Prohibited for use in oral products and eye products.	x
SILVER COPPER ZEOLITE	SILVERCOPPERZEOLITE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5% in rinseoff products (not applied to mucosa).	
SILVER COPPER ZEOLITE	SILVERCOPPERZEOLITE		The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
SILVER COPPER ZEOLITE	SILVERCOPPERZEOLITE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5% in leaveon products (not applied to mucosa).	
SILVER MAGNESIUM ALUMINUM PHOSPHATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SILVER NITRATE	silver nitrate	7761888	The European Commission restricts this ingredient to a maximum concentration of 4% in products for coloring eyelashes and eyebrows. Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains silver nitrate'; 'Rinse eyes immediately if product comes into contact with them'	
SILVER NITRATE	SILVER NITRATE	7761-88-8	Per the U.S. FDA., silver nitrate shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: (1) Arsenic, not more than 3 milligrams/kilogram (mg/kg) (3 parts per million (ppm)). (2) Cadmium, not more than 5 mg/kg (5 ppm). (3) Lead, not more than 10 mg/kg (10 ppm). (4) Mercury, not more than 1 mg/kg (1 ppm). (5) Volatile matter, calculated as water, not more than 0.1 percent. (6) Total color, not less than 99.9 percent.	x
SILVER SULFATE	Silver	7440224	Health Canada restricts this ingredient to a maximum concentration of 0.04% in mouthwashes. Required Warning: Health Canada requires the following warning text on the package/label of products containing silver and/or its salts: 'This product contains silver and/ or silver salts'; 'Avoid contact with broken or abraded skin'.	
SILVER, COLLOIDAL	SILVER, COLLOIDAL	7440-22-4	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
SILVER, COLLOIDAL	SILVER, COLLOIDAL	7440-22-4	Per the U.S. FDA., silver shall conform to the following specifications and shall be free from impurities other than those named to the extent that such other impurities may be avoided by good manufacturing practice: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 5 parts per million. Mercury (as Hg), not more than 1 part per million. Silver (as Ag), not less than 99.9 percent.	x
SILYBUM MARIANUM SEED OIL	SILYBUM MARIANUM SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
SIMETHICONE	SIMETHICONE	8050-81-5	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
SIMMONDSIA CHINENSIS (JOJOBA) ALCOHOL	JOJOBA ALCOHOL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
SIMMONDSIA CHINENSIS (JOJOBA) AMINO ACIDS	SIMMONDSIA CHINENSIS (JOJOBA) AMINO ACIDS	333338-07-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SIMMONDSIA CHINENSIS (JOJOBA) BUTTER	SIMMONDSIA CHINENSIS (JOJOBA) BUTTER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
SIMMONDSIA CHINENSIS (JOJOBA) OIL PEG-150 ESTERS	Simmondsia Chinensis (jojoba) Oil Peg150 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SIMMONDSIA CHINENSIS (JOJOBA) OIL PEG-150 ESTERS	SIMMONDSIA CHINENSIS (JOJOBA) OIL PEG-150 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SIMMONDSIA CHINENSIS (JOJOBA) OIL PEG-8 ESTERS	Simmondsia Chinensis (jojoba) Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SIMMONDSIA CHINENSIS (JOJOBA) OIL PEG-8 ESTERS	SIMMONDSIA CHINENSIS (JOJOBA) OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL	SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL	61789-91-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SIMMONDSIA CHINENSIS (JOJOBA) SEED WAX	SIMMONDSIA CHINENSIS (JOJOBA) SEED WAX	61789-91-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SIMMONDSIA CHINENSIS (JOJOBA) WAX	JOJOBA WAX		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
SIMMONDSIA CHINENSIS (JOJOBA) WAX PEG-120 ESTERS	Simmondsia Chinensis (jojoba) Wax Peg120 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SIMMONDSIA CHINENSIS (JOJOBA) WAX PEG-80 ESTERS	Simmondsia Chinensis (jojoba) Wax Peg80 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SLAGS, FERROCHROMIUM-MANUFG.	Chromium Compounds	69012-27-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM	Chromium Compounds	7440-23-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM ACETATE	SODIUM ACETATE	127-09-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
SODIUM ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
SODIUM ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE COPOLYMER	SODIUM ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
SODIUM ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE COPOLYMER	SODIUM ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE COPOLYMER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1.5%	
SODIUM ACRYLATE/VINYL ALCOHOL COPOLYMER	SODIUM ACRYLATE/VINYL ALCOHOL COPOLYMER	27599-56-0	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM ACRYLATE/VINYL ALCOHOL COPOLYMER	SODIUM ACRYLATE/VINYL ALCOHOL COPOLYMER	27599-56-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM ACRYLATES COPOLYMER	SODIUM ACRYLATES COPOLYMER	25549-84-2	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM ACRYLATES/ C10-30 ALKYL ACRYLATE CROSSPOLYMER	Sodium Acrylates/C1030 Alkyl Acrylate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.3%	
SODIUM ACRYLATES/ C10-30 ALKYL ACRYLATE CROSSPOLYMER	SODIUM ACRYLATES/ C10-30 ALKYL ACRYLATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM ACRYLATES/ VINYL ISODECANOATE CROSSPOLYMER	Sodium Acrylates/Vinyl Isodecanoate Crosspolymer		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.55%	
SODIUM ACRYLATES/ VINYL ISODECANOATE CROSSPOLYMER	SODIUM ACRYLATES/ VINYL ISODECANOATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM ACRYLATES/ACROLEIN COPOLYMER	SODIUM ACRYLATES/ACROLEIN COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM ACRYLATES/BEHENETH-25 METHACRYLATE CROSSPOLYMER	SODIUM ACRYLATES/BEHENETH-25 METHACRYLATE CROSSPOLYMER		EWG restricts the summed concentration of residual monomers (methacrylic acid and its simple esters) to a maximum concentration of 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers due to concerns over dermal sensitization.	x
SODIUM ACRYLATES/BEHENETH-25 METHACRYLATE CROSSPOLYMER	SODIUM ACRYLATES/BEHENETH-25 METHACRYLATE CROSSPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	SODIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	SODIUM ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE/VP COPOLYMER	SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE/VP COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE/VP COPOLYMER	SODIUM ACRYLOYLDIMETHYL TAURATE/ACRYLAMIDE/VP COPOLYMER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.65%	
SODIUM ALGIN SULFATE	SODIUM ALGIN SULFATE	9010-06-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM ALUM	Aluminum Compounds	10024-42-7	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM ALUMINUM CHLOROXYDROXY LACTATE	Aluminum Compounds	8038-93-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM ALUMINUM LACTATE	Aluminum Compounds	68953-69-5	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
Sodium Aluminum Phosphate	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM ASCORBATE	SODIUM ASCORBATE	134032	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
SODIUM ASCORBYL PHOSPHATE	SODIUM ASCORBYL PHOSPHATE	66170-10-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
SODIUM ASTROCARYUM MURUMURUATE	SODIUM ASTROCARYUM MURUMURUATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.005%.	
SODIUM BABASSUATE	SODIUM BABASSUATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
SODIUM BEESWAX	SODIUM BEESWAX	97721-96-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM BEHENATE	SODIUM BEHENATE	5331-77-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM BEHENOYL LACTYLATE	SODIUM BEHENOYL LACTYLATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%	
SODIUM BENZOATE	Benzoic acid	65850	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
SODIUM BENZOATE	Sodium benzoate	532321	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
SODIUM BENZOATE	Benzoate	532-32-1	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
SODIUM BENZOTRIAZOLYL BUTYLPHENOL SULFONATE	SODIUM BENZOTRIAZOLYL BUTYLPHENOL SULFONATE	92484-48-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM BIFLUORIDE	SODIUMFLUORIDE	1333831	Health Canada restricts the use of this ingredient to nonoral products.	
SODIUM BIFLUORIDE	Fluoride containing substances	1333-83-1	Health Canada prohibits fluoride containing substances in oral products. EXCEPTION: sodium fluoride, sodium monofluorophosphate, and stannous fluoride may be used in medicinal oral products, as defined by Health Canada, Oral Health Products Monograph.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM BISULFITE	Sodium bisulfite	7631905	The European Commission restricts this ingredient to a maximum concentration of 0.67% (as free SO ₂) in oxidative hair dyes, 6.7% (as free SO ₂) in hair straightening products, 0.45% (as free SO ₂) in selftanning face products, and 0.40% (as free SO ₂) in other selftanning products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
SODIUM BISULFITE	Sodium bisulfite	7631905	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.7%.	
SODIUM BORATE	SODIUM BORATE	1303964	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products, 18% (as boric acid) in bath products, and 8% (as boric acid) in hair products. For all other products, the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. For all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For hair products, the following are required: 'Not to be used for children under 3 years of age'. Lastly, for hair products, the following warning is required: 'Rinse well'.	
SODIUM BORATE	SODIUM BORATE, ANHYDROUS	1330434	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products, 18% (as boric acid) in bath products, and 8% (as boric acid) in hair products. For all other products, the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. For all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For hair products, the following are required: 'Not to be used for children under 3 years of age'. Lastly, for hair products, the following warning is required: 'Rinse well'.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM BORATE	SODIUM BORATE	1330434	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%. Additionally, it may not be used on infant or injured skin.	
SODIUM BORATE	SODIUMBORATE	1303964	Health Canada restricts this ingredient to a maximum concentration of 5%. Required Warning: Health Canada requires the following warning text on the package/label of products containing at least 0.1% of sodium borate: 'Do not use on broken or abraded skin'; 'Not to be used by children under three years of age'.	
SODIUM BORATE, ANHYDROUS	SODIUM BORATE, ANHYDROUS	1330434	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products, 18% (as boric acid) in bath products, and 8% (as boric acid) in hair products. For all other products, the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. For all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For hair products, the following are required: 'Not to be used for children under 3 years of age'. Lastly, for hair products, the following warning is required: 'Rinse well'.	
SODIUM BORATE, ANHYDROUS	SODIUM BORATE	1330434	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%. Additionally, it may not be used on infant or injured skin.	
SODIUM BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM BROMATE	Sodium bromate	7789-38-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10.17%.	
SODIUM BROMATE	SODIUMBROMATE	7789380	Required Warning: Health Canada requires that the product is packaged in a childresistant container if it contains at least 600 mg of sodium bromate. Additionally, the following warning text are required on the package/label of products containing at least 600 mg of sodium bromate: 'This product contains sodium bromate, is poisonous, and is to be kept out of the reach of children. In case of accidental ingestion, a Poison Control Centre or physician is to be contacted immediately'.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM C11-15 PARETH-7 CARBOXYLATE	Sodium C1115 Pareth7 Carboxylate	68603-23-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Sodium C12-14 Amines-tert-Alkylated Ethoxylated Sulfates	Sodium C1214 AminesTertAlkylated Ethoxylated Sulfates		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM C12-14 OLEFIN SULFONATE	SODIUM C1214 OLEFIN SULFONATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in leaveon products. Additionally, CIR restricts the gamma sultone contents of this ingredient to the following concentrations: 10ppm for unsubstituted alkane sultones, 1ppm for chlorosultones, and 0.1ppm for unsaturated sultones.	
SODIUM C12-15 PARETH-6 CARBOXYLATE	Sodium C1215 Pareth6 Carboxylate	70632-06-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM C14-16 OLEFIN SULFONATE	SODIUM C1416 OLEFIN SULFONATE	68439-57-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in leaveon products. Additionally, CIR restricts the gamma sultone contents of this ingredient to the following concentrations: 10ppm for unsubstituted alkane sultones, 1ppm for chlorosultones, and 0.1ppm for unsaturated sultones.	
SODIUM C14-18 OLEFIN SULFONATE	SODIUM C1418 OLEFIN SULFONATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in leaveon products. Additionally, CIR restricts the gamma sultone contents of this ingredient to the following concentrations: 10ppm for unsubstituted alkane sultones, 1ppm for chlorosultones, and 0.1ppm for unsaturated sultones.	
SODIUM C16-18 OLEFIN SULFONATE	SODIUM C1618 OLEFIN SULFONATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in leaveon products. Additionally, CIR restricts the gamma sultone contents of this ingredient to the following concentrations: 10ppm for unsubstituted alkane sultones, 1ppm for chlorosultones, and 0.1ppm for unsaturated sultones.	
SODIUM CAPRATE	SODIUM CAPRATE	1002-62-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM CAPROYL LACTYLATE	SODIUM CAPROYL LACTYLATE	29051-57-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM CAPROYL METHYLTAURATE	SODIUM CAPROYL METHYLTAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM CAPROYL/LAUROYL LACTYLATE	SODIUM CAPROYL/LAUROYL LACTYLATE	13557-74-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%	
SODIUM CAPRYLATE	SODIUM CAPRYLATE	1984-06-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM CARBOMER	SODIUM CARBOMER	1401207-41-7	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM CARBOMER	SODIUM CARBOMER	1401207-41-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM CARBONATE	sodium carbonate	497198	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
SODIUM CARBONATE PEROXIDE	SODIUM CARBONATE PEROXIDE	15630894	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. Concentration of H2O2 present or released: 12% for hair products, 4% for skin products, 2% for nail hardening products, 0.1% for oral products, and greater than 0.1% but less than or equal to 6% for tooth whitening or bleaching products.	
SODIUM CARBOXYDECYL PEG-8 DIMETHICONE	Sodium Carboxydecyl Peg8 Dimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM CARBOXYMETHYL BETAGLUCAN	SODIUM CARBOXYMETHYL BETAGLUCAN	9050-93-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM CARBOXYMETHYL DEXTRAN	SODIUM CARBOXYMETHYL DEXTRAN	39422-83-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM CARBOXYMETHYL STARCH	SODIUM CARBOXYMETHYL STARCH	9063381	Required Warning: The Cosmetic Ingredient Review panel concludes this substance is safe as used up to a concentration of 4.7% provided it is produced using current good manufacturing practices (cGMPs).	x
SODIUM CARRAGEENAN	SODIUM CARRAGEENAN	9061-82-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM CASEINATE	SODIUM CASEINATE	9005-46-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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SODIUM CASTORATE	SODIUM CASTORATE	8013-06-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM CETEARETH-13 CARBOXYLATE	Sodium Ceteareth13 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM CETEARYL SULFATE	SODIUM CETEARYL SULFATE	59186-41-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
SODIUM CETETH-13 CARBOXYLATE	Sodium Ceteth13 Carboxylate	33939650	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM CETETH-4 PHOSPHATE	Sodium Ceteth4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM CETYL SULFATE	SODIUM CETYL SULFATE	1120-01-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
SODIUM CHLORATE	sodium chlorate	7775-09-9	The European Commission restricts this ingredient to a maximum concentration of 5% in toothpastes and 3% in all other products.	
SODIUM CHROMATE	Chromium Compounds	7775-11-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM CITRATE	MONOSODIUM CITRATE	18996-35-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
SODIUM CITRATE	Sodium Citrate	18996-35-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
SODIUM COCETH SULFATE/ PEG-40 GLYCERYL COCOATE	Sodium Coceth Sulfate/ Peg40 Glyceryl Cocoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM COCETH-30 SULFATE	Sodium Coceth30 Sulfate	68891-38-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM COCOAMPHOACETATE	sodium cocoamphoacetate	68334-21-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 18%.	
SODIUM COCOAMPHOPROPIONATE	COCOAMPHOPROPIONATE	68988-63-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
SODIUM COCOAMPHOPROPIONATE	SODIUM COCOAMPHOPROPIONATE	68988-63-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
SODIUM COCOATE	SODIUM COCOATE	61789319	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 52%.	
SODIUM COCOYL AMINO ACIDS	Sodium Cocoyl Amino acids		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
SODIUM COCOYL APPLE AMINO ACIDS	Sodium Cocoyl Apple amino acids		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 3%	
SODIUM COCOYL COLLAGEN AMINO ACIDS	Sodium Cocoyl collagen amino acids		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.02%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM COCOYL GLUTAMATE	Sodium cocoyl glutamate	68187-32-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 10%	
SODIUM COCOYL GLYCINATE	Sodium cocoyl glycinate	90387-74-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 20%	
SODIUM COCOYL LACTYLATE	SODIUM COCOYL LACTYLATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%	
SODIUM COCOYL SARCOSINATE	SODIUM COCOYL SARCOSINATE	61791-59-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, it cannot be used in products where Nitroso compounds may be formed.	
SODIUM COCOYL TAURATE	SODIUM COCOYL TAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM CUMENESULFONATE	SODIUM CUMENESULFONATE	28348-53-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
SODIUM DECETH SULFATE	SODIUM DECETH SULFATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DECETH-2 CARBOXYLATE	Sodium Deceth2 Carboxylate	38815939	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DECETH-3 SULFATE	Sodium Deceth3 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DEHYDROACETATE	SODIUM DEHYDROACETATE	4418262	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.6%.	
SODIUM DEXTRAN SULFATE	SODIUM DEXTRAN SULFATE	9011-18-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM DEXTRIN OCTENYLSUCCINATE	SODIUM DEXTRIN OCTENYLSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM DICETEARETH-10 PHOSPHATE	Sodium Dicetareth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DICOCOYLETHYLENEDIAMINE PEG-15 STEARATE	Sodium Dicocoylthylenediamine Peg15 Stearate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DICOCOYLETHYLENEDIAMINE PEG-15 SULFATE	Sodium Dicocoylthylenediamine Peg15 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM DILAURETH-10 PHOSPHATE	Sodium Dilaureth10 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DILAURETH-4 PHOSPHATE	Sodium Dilaureth4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DILAURETH-7 CITRATE	Sodium Dilaureth7 Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DILINOLEATE	SODIUM DILINOLEATE	67701-20-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM DIMETHICONE PEG-7 ACETYL METHYLTAURATE	Sodium Dimethicone Peg7 Acetyl Methyltaurate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM DIOLETH-8 PHOSPHATE	Sodium Dioleth8 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
Sodium Disilicate	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM EDTA	EDTA		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
SODIUM ERYTHORBATE	SODIUM ERYTHORBATE	6381777	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
SODIUM ETIDRONATE	SODIUM ETIDRONATE	7414837	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as etidronic acid) in hair products, and 0.2% (as etidronic acid) in soap products.	
SODIUM ETIDRONATE	DISODIUM ETIDRONATE	7414-83-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to %	
SODIUM FLUOALUMINATE	Aluminum Compounds	15096-52-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM FLUORIDE	sodium fluoride	7681494	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains sodium fluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
SODIUM FLUORIDE	sodium fluoride	7681494	Due to fluoride toxicity concerns, this ingredient cannot be used in products marketed for use on babies or children.	
SODIUM FLUORIDE	Fluoride containing substances	7681-49-4	Health Canada prohibits fluoride containing substances in oral products. EXCEPTION: sodium fluoride, sodium monofluorophosphate, and stannous fluoride may be used in medicinal oral products, as defined by Health Canada, Oral Health Products Monograph.	
SODIUM FLUOROSILICATE	Sodium Fluorosilicate	16893859	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains sodium fluorosilicate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
SODIUM FLUOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM FRUCTOBORATE	SODIUM FRUCTOBORATE		The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
SODIUM GLUCONATE	SODIUM GLUCONATE	527-07-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM GLYCINATE	SODIUM GLYCINATE	6000-44-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM GLYCOLATE	SODIUM GLYCOLATE	2836-32-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
SODIUM HEXAMETAPHOSPHATE	SODIUM HEXAMETAPHOSPHATE	10124568	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: lead.	
SODIUM HYALURONATE	SODIUM HYALURONATE	9067-32-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
SODIUM HYDROGENATED TALLOWATE	SODIUM HYDROGENATED TALLOWATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM HYDROGENATED TALLOWOYL GLUTAMATE	Sodium hydrogenated tallowoyl glutamate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.8%	
SODIUM HYDROLYZED CASEIN	SODIUM HYDROLYZED CASEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM HYDROXIDE	Sodium hydroxide	1310732	The European Commission restricts this ingredient to a maximum concentration of 5% in nail cuticle solvent, 2% in general use hair straighteners, and 4.5% in professional use hair straighteners (The quantity of sodium, potassium or lithium hydroxide is expressed as weight of sodium hydroxide. In cases of mixtures, the sum should not exceed the limits given 'Maximum concentration in ready for use preparation'). The European Commission also restricts final formulation pH up to 12.7 as a pH adjuster for depilatories and up to 11 for other uses. Required Warning: The European Commission requires the following warning text on the product label/package of nail cuticle solvents and general use hair straighteners: 'Contains alkali'; 'Avoid contact with eyes'; 'Can cause blindness'; 'Keep out of reach of children'. For professional use hair straighteners, the following are required: 'Avoid contact with eyes'; 'Can cause blindness'. Lastly, as a pH adjuster for depilatories, the following are required on the label: 'Keep out of reach of children'; 'Avoid contact with eyes'	
SODIUM HYDROXIDE	Sodium hydroxide	1310-73-2	(*) The Cosmetic Ingredient Review has determined that users should minimize skin contact for hair straighteners and depilatories that contain this ingredient.	
SODIUM HYDROXIDE	SODIUM HYDROXIDE	1310-73-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM HYDROXYMETHYLGLYCINATE	Sodium hydroxymethylamino acetate	70161443	(*) The European Commission restricts this ingredient to a maximum concentration of 0.50%	
SODIUM HYDROXYMETHYLGLYCINATE	SODIUM HYDROXYMETHYLGLYCINATE	70161-44-3	Per COSING, the maximum concentration in RTU preparation is 0.50%. Prohibited for use if the maximum theoretical concentration of releasable formaldehyde, irrespective of the source, if the mixture as placed on the market is $\geq 0,1$ % w/w.	x
SODIUM HYDROXYSTEARATE	SODIUM HYDROXYSTEARATE	13329-67-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM HYPOCHLORITE	Sodium Hypochlorite	7681529	This substance may not be used in leaveon products because it can cause severe skin burns, according to harmonized GHS classifications.	
SODIUM HYPOCHLORITE	Sodium Hypochlorite	7681529	This substance may not be used around the eyes or other mucus membranes because it can cause serious eye damage and severe skin burns, according to harmonized GHS classifications.	
SODIUM HYPOCHLORITE	Sodium Hypochlorite	7681529	This substance may not be used in powder or spray products because it is classified as an asthmagen by AOEC.	
SODIUM HYPOCHLORITE	Sodium Hypochlorite	7681529	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM ISETHIONATE	Sodium Isethionate	1562-00-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 6%	
SODIUM ISOSTEARATE	SODIUM ISOSTEARATE	64248-79-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM ISOSTEAROYL LACTYLATE	SODIUM ISOSTEAROYL LACTYLATE	66988-04-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%	
SODIUM LACTATE	SODIUM LACTATE	72173	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 in regular use products. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	

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SODIUM LANETH SULFATE	SODIUM LANETH SULFATE	68919-23-3	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LANOLATE	SODIUM LANOLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM LARDATE	SODIUM LARDATE	68605-06-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM LAURATE	SODIUM LAURATE	629-25-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM LAURETH SULFATE	Sodium Laureth8 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH SULFATE	Sodium Laureth7 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH SULFATE	Sodium Laureth5 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH SULFATE	Sodium Laureth40 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH SULFATE	Sodium Laureth12 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH SULFATE	SODIUM LAURETH SULFATE	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH SULFOSUCCINATE	Sodium Laureth Sulfosuccinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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SODIUM LAURETH-1 SULFATE	Sodium Laureth1 Sulfate	15826161	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-11 CARBOXYLATE	Sodium Laureth11 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-12 CARBOXYLATE	Sodium Laureth12 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-12 SULFATE	Sodium Laureth12 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth8 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth5 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth4 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth3 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth17 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth14 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth12 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth11 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth6 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-13 CARBOXYLATE	Sodium Laureth13 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-14 CARBOXYLATE	Sodium Laureth14 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-16 CARBOXYLATE	Sodium Laureth16 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-17 CARBOXYLATE	Sodium Laureth17 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-2 PHOSPHATE	Sodium Laureth4 Phosphate	42612522	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-2 PHOSPHATE	Sodium Laureth2 Phosphate	42612522	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-2 SULFATE	Sodium Laureth2 Sulfate	3088311	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM LAURETH-3 CARBOXYLATE	Sodium Laureth3 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-3 SULFATE	Laureth3 Sodium Sulfate	13150000	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-4 CARBOXYLATE	Sodium Laureth4 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-4 PHOSPHATE	Sodium Laureth4 Phosphate	42612522	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-40 SULFATE	Sodium Laureth40 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-5 CARBOXYLATE	Sodium Laureth5 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-5 SULFATE	Sodium Laureth5 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-6 CARBOXYLATE	Sodium Laureth6 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-7 SULFATE	Sodium Laureth7 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-7 TARTRATE	Sodium Laureth7 Tartrate	141250422	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM LAURETH-8 CARBOXYLATE	Sodium Laureth8 Carboxylate	33939649	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-8 SUFLATE	Sodium Laureth8 Suflate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURETH-8 SULFATE	Sodium Laureth8 Sulfate	9004824	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM LAURIMINODIPROPIONATE	SODIUM LAURIMINODIPROPIONATE	26256-79-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.05% in rinseoff products.	
SODIUM LAUROAMPHOACETATE	SODIUM LAUROAMPHOACETATE	66161-62-4	This substance must not contain any residual aminoethylethanolamine (AEE).	
SODIUM LAUROYL ASPARTATE	Sodium lauroyl aspartate	41489-18-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
SODIUM LAUROYL GLUTAMATE	Sodium lauroyl glutamate	29923-31-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 40%	
SODIUM LAUROYL LACTYLATE	Sodium lauroyl lactylate	13557-75-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%	
Sodium Lauroyl Methyl Isethionate	Sodium Lauroyl Methyl Isethionate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used when formulated to be nonirritating up to 10%	
SODIUM LAUROYL OAT AMINO ACIDS	Sodium lauroyl oat amino acids		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 5%	
SODIUM LAUROYL SARCOSINATE	SODIUM LAUROYL SARCOSINATE	137-16-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, it cannot be used in products where Nnitroso compounds may be formed.	
SODIUM LAUROYL SARCOSINATE	SODIUMLAUROYLSARCOSINATE	137-16-6	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5% in toothpaste.	
SODIUM LAUROYL SARCOSINATE	SODIUMLAUROYLSARCOSINATE	137-16-6	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in leaveon products.	
SODIUM LAUROYL TAURATE	SODIUM LAUROYL TAURATE	70609-66-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM LAURYL SULFATE	SODIUM LAURYL SULFATE	151213	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1% in leaveon products.	
SODIUM LAURYL SULFOACETATE	SODIUM LAURYL SULFOACETATE	1847-58-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 21%.	
SODIUM LEVULINATE	SODIUM LEVULINATE	19856-23-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM LINOLEATE	SODIUM LINOLEATE	822-17-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM MAGNESIUM FLUOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM MAGNESIUM SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM MAGNESIUM SILICATE	SODIUM MAGNESIUM SILICATE	101659-01-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
SODIUM MAGNESIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM MALATE	SODIUM MALATE	676-46-0	The Cosmetic Ingredient Review restricts the use of this ingredient as a pH adjuster.	
SODIUM METABISULFITE	Sodium Metabisulfite	7681574	The European Commission restricts this ingredient to a maximum concentration of 0.67% (as free SO2) in oxidative hair dyes, 6.7% (as free SO2) in hair straightening products, 0.45% (as free SO2) in selftanning face products, and 0.40% (as free SO2) in other selftanning products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
SODIUM METABISULFITE	Sodium Metabisulfite	7681574	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
SODIUM METABISULFITE	Sodium Metabisulfite	7681574	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
SODIUM METAPHOSPHATE	SODIUM METAPHOSPHATE	50813166	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: lead.	
SODIUM METASILICATE	SODIUM METASILICATE	6834920	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
SODIUM METASILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM METHACRYLATE/STYRENE COPOLYMER	SODIUM METHACRYLATE/STYRENE COPOLYMER	33970-45-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM METHYL LAUROYL TAURATE	SODIUM METHYL LAUROYL TAURATE	4337-75-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM METHYL MYRISTOYL TAURATE	SODIUM METHYL MYRISTOYL TAURATE	18469-44-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM METHYL OLEYL TAURATE	SODIUM METHYL OLEYL TAURATE	137-20-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM METHYL PALMITOYL TAURATE	SODIUM METHYL PALMITOYL TAURATE	3737-55-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM METHYL STEAROYL TAURATE	SODIUM METHYL STEAROYL TAURATE	149-39-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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SODIUM METHYL TAURATE	SODIUM METHYL TAURATE	4316-74-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM METHYLTAURINE COCOYL METHYLTAURATE	SODIUM METHYLTAURINE COCOYL METHYLTAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM MONOFLUOROPHOSPHATE	sodium monofluorophosphate	10163-15-2	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains sodium monofluorophosphate'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a peasized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
SODIUM MONOFLUOROPHOSPHATE	Fluoride	16984488	Health Canada restricts the use of this ingredient to nonoral products.	
SODIUM MONOFLUOROPHOSPHATE	SODIUMMONOFLUOROPHOSPHATE	10163152	Health Canada restricts the use of this ingredient to nonoral products.	
SODIUM MONOFLUOROPHOSPHATE	Fluoride containing substances	10163-15-2	Health Canada prohibits fluoride containing substances in oral products. EXCEPTION: sodium fluoride, sodium monofluorophosphate, and stannous fluoride may be used in medicinal oral products, as defined by Health Canada, Oral Health Products Monograph.	
SODIUM MYRISTATE	SODIUM MYRISTATE	822-12-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
SODIUM MYRISTOYL GLUTAMATE	Sodium myristoyl glutamate	38517-37-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 31%	
SODIUM MYRISTOYL SARCOSINATE	SODIUM MYRISTOYL SARCOSINATE	30364-51-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, it cannot be used in products where Nnitroso compounds may be formed.	
SODIUM NAPHTHALENESULFONATE	SODIUM NAPHTHALENESULFONATE	532-02-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
SODIUM NITRITE	sodium nitrite	7632000	The European Commission restricts this ingredient to a maximum concentration of 0.2% as a rust inhibitor and cannot be used with secondary and/or tertiary amines or other substances forming nitrosamines.	
SODIUM NONOXYNOL-1 SULFATE	Sodium Nonoxynol1 Sulfate	9014-90-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM NONOXYNOL-10 SULFATE	Sodium Nonoxynol10 Sulfate	9014-90-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM NONOXYNOL-25 SULFATE	Sodium Nonoxynol25 Sulfate	9014-90-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM NONOXYNOL-3 SULFATE	Sodium Nonoxynol3 Sulfate	9014-90-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM NONOXYNOL-4 SULFATE	Sodium Nonoxynol4 Sulfate	9014-90-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM NONOXYNOL-6 PHOSPHATE	Sodium Nonoxynol6 Phosphate	12068-19-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM NONOXYNOL-6 SULFATE	Sodium Nonoxynol6 Sulfate	9014-90-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM NONOXYNOL-8 SULFATE	Sodium Nonoxynol8 Sulfate	9014-90-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM NONOXYNOL-9 PHOSPHATE	Sodium Nonoxynol9 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM O-PHENYLPHENATE	SODIUMOPHENYLPHENATE	132-27-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.15% in rinseoff products (not applied to mucosa).	
SODIUM O-PHENYLPHENATE	SODIUMOPHENYLPHENATE	132-27-4	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
SODIUM O-PHENYLPHENATE	SODIUMOPHENYLPHENATE	132-27-4	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.15% in leaveon products (not applied to mucosa).	
SODIUM OCTOXYNOL-2 ETHANE SULFONATE	SODIUM OCTOXYNOL2 ETHANE SULFONATE	2917944	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
SODIUM OCTOXYNOL-2 SULFATE	SODIUM OCTOXYNOL2 SULFATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
SODIUM OCTOXYNOL-6 SULFATE	SODIUM OCTOXYNOL6 SULFATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	
SODIUM OCTOXYNOL-9 SULFATE	SODIUM OCTOXYNOL9 SULFATE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: ethylene oxide and 1,4dioxane.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM OLEATE	SODIUM OLEATE	143-19-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM OLEOYL LACTYLATE	SODIUM OLEOYL LACTYLATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM OLETH SULFATE	SODIUM OLETH SULFATE	27233347	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM OLETH-2 SULFATE	Sodium Oleth2 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM OLETH-7 PHOSPHATE	Sodium Oleth8 Phosphate	57486096	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM OLETH-7 PHOSPHATE	Sodium Oleth7 Phosphate	57486096	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM OLETH-8 PHOSPHATE	Sodium Oleth8 Phosphate	57486096	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM OLIVATE	SODIUM OLIVATE	61789-88-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 18%.	
SODIUM OLIVATE	SODIUM OLIVATE	61789-88-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 18%	
SODIUM OXALATE	SODIUM OXALATE	62760	The European Commission restricts this ingredient to a maximum concentration of 5%, and is only allowed in Professional Use products. Required Warning: The European Commission requires the following warning text on the product label/package: 'For professional use only.'	
SODIUM P-CHLORO-M-CRESOL	SODIUM PCHLOROMCRESOL	15733-22-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
SODIUM PALM KERNELATE	SODIUM PALM KERNELATE	61789-89-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 44%	
SODIUM PALMATE	Sodium Palmate	61790792	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 68%	
SODIUM PALMITATE	SODIUM PALMITATE	408-35-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM PALMOYL GLUTAMATE	Sodium palmoyl glutamate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 22%	
SODIUM PANTOTHENATE	SODIUM PANTOTHENATE	867-81-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM PARABEN	SODIUM PARABEN	114-63-6	Per COSING, the maximum concentration in RTU preparation is 0.4% (as acid) for single ester and 0.8% (as acid) for mixtures of esters.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM PCA	SODIUM PCA	28874-51-3	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form (do not contain nitrosating agents).	
SODIUM PCA	SODIUM PCA	28874-51-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%	
SODIUM PEG-3 LAURAMIDE CARBOXYLATE	Sodium Peg3 Lauramide Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-4 COCAMIDE SULFATE	Sodium Peg4 Cocamide Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-4 LAURAMIDE CARBOXYLATE	Sodium Peg4 Lauramide Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-4 LAURAMIDE SULFATE	Sodium Peg4 Lauramide Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-4 TRIDECYL ETHER SULFATE	Sodium Peg4 Tridecyl Ether Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	Sodium Peg50 Hydrogenated Castor Oil Succinate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	SODIUM PEG-50 HYDROGENATED CASTOR OIL SUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM PEG-6 COCAMIDE CARBOXYLATE	Sodium Peg6 Cocamide Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-7 OLIVE OIL CARBOXYLATE	Sodium Peg7 Olive Oil Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PEG-8 COCAMIDE CARBOXYLATE	Sodium Peg8 Cocamide Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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SODIUM PEG-8 PALM GLYCERIDES CARBOXYLATE	Sodium Peg8 Palm Glycerides Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM PERBORATE	SODIUM PERBORATE	15120215	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for	
SODIUM PERBORATE	SODIUMPERBORATE	15120-21-5	Health Canada requires manufacturers of oral products containing peroxides or peroxidegenerating compounds to submit the following information: data on the pH of the cosmetic product, when it is applied to the tooth or teeth, i.e. that the pH is greater than or equal to 4.0; product labelling demonstrating that all cautionary statement requirements have been met. If an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit safety evidence that the product does not cause the saliva or soft tissue of the oral cavity to exceed 3% hydrogen peroxide, and is safe when used as directed. Required Warning: Health Canada requires the following warning text on the package/label of oral products: 'If irritation (such as redness, swelling, soreness) of the gums or the mouth occurs, discontinue use and consult a dentist'; 'Products containing peroxides are not recommended for use by children under 12 years of age'; 'Use for periods of longer than 14 days is to be only under the supervision of a dentist'; 'Avoid swallowing the cosmetic or part thereof'; 'Avoid contact of the product with the eye'; 'Avoid direct contact of the active surface of the tooth whitening product with the gums and/or salivary flow.'	
SODIUM PERBORATE	SODIUM PERBORATE	15120-21-5	According to Section 13 of Canada's Cosmetic Regulations the pH of oral products containing this ingredient must be greater than or equal to 4.0. Additionally, if an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit a clinical study to demonstrate the salivary peroxide levels do not exceed 3% during the use of the product as per the directions of use.	x

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SODIUM PERSULFATE	SODIUM PERSULFATE	7775-27-1	The Cosmetic Ingredient Review restricts the use of this ingredient as an oxidizing agent in hair colorants and lighteners designed for brief, discontinuous use followed by thorough rinsing from hair and skin. The available data are insufficient for determining the safety of these persulfates in leaveon products and dentrifiers.	
SODIUM PHYTATE	Sodium Phytate	14306253	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 0.5%.	
SODIUM PICRAMATE	SODIUMPICRAMATE	831527	Health Canada restricts this ingredient to a maximum concentration of 0.1%.	
SODIUM POLYACRYLATE	SODIUM POLYACRYLATE	9003-04-7	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM POLYACRYLOYLDIMETHYL TAURATE	Sodium Polyacryloyldimethyl Taurate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 1%	
SODIUM POLYMETHACRYLATE	SODIUM POLYMETHACRYLATE	54193-36-1	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
SODIUM POLYMETHACRYLATE	SODIUM POLYMETHACRYLATE	54193-36-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM POLYNAPHTHALENESULFONATE	SODIUM POLYNAPHTHALENESULFONATE	9084-06-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3% in skin care products.	
SODIUM POTASSIUM ALUMINOSILICATE	Aluminum Compounds	12736-96-8	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM POTASSIUM ALUMINOSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM POTASSIUM ALUMINUM SILICATE	CLAYS AND MINERALS	66402-68-4	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
SODIUM POTASSIUM ALUMINUM SILICATE	Aluminum Compounds	66402-68-4	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM POTASSIUM ALUMINUM SILICATE	Aluminum Compounds	1302-72-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
SODIUM POTASSIUM ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM POTASSIUM ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM PROPOXYHYDROXYPROPYL THIOSULFATE SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM SALICYLATE	SODIUM SALICYLATE	54217	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
SODIUM SALICYLATE	Salicylic acid and its salts	54217	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.5%; Not to be used in products for children under 3 years of age, except for shampoos. Required Warning: Required warning: Not to be used for children under 3 years of age***. ***Solely for products which might be used for children under 3 years of age and which remain in prolonged contact with the skin.	
SODIUM SALICYLATE	SODIUM SALICYLATE	54-21-7	Per COSING, the maximum concentration in RTU preparation is 0.5%. This ingredient is not to be used in products for children under 3 years of age (except for shampoos), in oral products, or in applications that may lead to exposure of the end-user's lungs by inhalation.	x
SODIUM SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM SILICOALUMINATE	Aluminum Compounds	1344-00-9	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SODIUM SILICOALUMINATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM SILVER ALUMINUM SILICATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	

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SODIUM SILVER ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SODIUM STARCH OCTENYLSUCCINATE	SODIUM STARCH OCTENYLSUCCINATE	52906-93-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM STEARATE	SODIUM STEARATE	822162	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
SODIUM STEAROYL GLUTAMATE	Sodium stearoyl glutamate	38517-23-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
SODIUM STEAROYL LACTYLATE	Sodium stearoyl lactylate	25383-99-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%	
SODIUM STYRENE/ ACRYLATES COPOLYMER	SODIUM STYRENE/ ACRYLATES COPOLYMER	9010-92-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM STYRENE/ PEG-10 MALEATE/ NONOXYNOL-10 MALEATE/ ACRYLATES COPOLYMER	Sodium Styrene/ Peg10 Maleate/ Nonoxynol10 Maleate/ Acrylates Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER	SODIUM STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM STYRENE/ACRYLATES/PEG-10 DIMALEATE COPOLYMER	Sodium Styrene/acrylates/peg10 Dimaleate Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM STYRENE/PEG-10 MALEATE/NONOXYNOL-10 MALEATE/ACRYLATE COPOL	Sodium Styrene/peg10 Maleate/nonoxynol10 Maleate/acrylate Copol		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM SULFIDE	SODIUM SULFIDE	16721805	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
SODIUM SULFIDE	SODIUM SULFIDE	1313822	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
SODIUM SULFIDE	SODIUM SULFIDE	1313822	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM SULFIDE	SODIUMSULFIDE	1313822	Health Canada restricts this ingredient to a maximum concentration of 2% (sulfur) in depilatory products.	
SODIUM SULFIDE	SODIUMSULFIDE	1313822	Health Canada restricts this ingredient to a maximum concentration of 2% (sulfur) in depilatory products.	
SODIUM SULFITE	SODIUM SULFITE	7757837	The European Commission restricts this ingredient to a maximum concentration of 0.67% (as free SO ₂) in oxidative hair dyes, 6.7% (as free SO ₂) in hair straightening products, 0.45% (as free SO ₂) in selftanning face products, and 0.40% (as free SO ₂) in other selftanning products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
SODIUM SULFITE	SODIUM SULFITE	7757837	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
SODIUM SWEET ALMONDATE	SODIUM SWEET ALMONDATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
SODIUM TALLOWATE	SODIUM TALLOWATE	8052-48-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM TAURATE	SODIUM TAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM TAURINE COCOYL METHYLTAURATE	SODIUM TAURINE COCOYL METHYLTAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM THIOGLYCOLATE	SODIUM THIOGLYCOLATE	367511	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professional use only.'	
SODIUM THIOGLYCOLATE	SODIUM THIOGLYCOLATE	367-51-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% in hair dyes and noncoloring hair products.	
SODIUM TOCOPHERYL PHOSPHATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
SODIUM TOCOPHERYL PHOSPHATE	SODIUM TOCOPHERYL PHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM TRIDECETH SULFATE	Sodium Trideceth Sulfate	25446780	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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SODIUM TRIDECETH SULFATE	SODIUM TRIDECETH SULFATE	25446-78-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM TRIDECETH-12 CARBOXYLATE	Sodium Trideceth12 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-15 CARBOXYLATE	Sodium Trideceth15 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-19 CARBOXYLATE	Sodium Trideceth19 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-3 CARBOXYLATE	Sodium Trideceth3 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-3 SULFATE	Sodium Trideceth3 Sulfate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-4 CARBOXYLATE	Sodium Trideceth4 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-6 CARBOXYLATE	Sodium Trideceth6 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth8 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth6 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth4 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth3 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth19 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth15 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth12 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-7 CARBOXYLATE	Sodium Trideceth7 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECETH-8 CARBOXYLATE	Sodium Trideceth8 Carboxylate	61757593	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM TRIDECYLBENZENESULFONATE	SODIUM TRIDECYLBENZENESULFONATE	26248-24-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SODIUM TRIMETAPHOSPHATE	Sodium trimetaphosphate	7785-84-4	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: lead.	
SODIUM UNDECETH-5 CARBOXYLATE	Sodium Undeceth5 Carboxylate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM UNDECYLENATE	SODIUM UNDECYLENATE	3398-33-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
SODIUM XYLENE SULFONATE	SODIUM XYLENESULFONATE	1300-72-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
SODIUM ZINC CETYL PHOSPHATE	SODIUM ZINC CETYL PHOSPHATE		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
SODIUM ZINC HISTIDINE DITHIOOCTANAMIDE	SODIUM ZINC HISTIDINE DITHIOOCTANAMIDE		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	

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SODIUM/ TEA LAUROYL HYDROLYZED COLLAGEN	SODIUM/ TEA LAUROYL HYDROLYZED COLLAGEN	68920592	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/ TEA LAUROYL HYDROLYZED COLLAGEN	Lauroyl collagen amino acids	68920592	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/ TEA LAUROYL HYDROLYZED COLLAGEN	LAUROYL HYDROLYZED COLLAGEN	68920592	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/MEA LAURETH-2 SULFOSUCCINATE	SODIUM/MEA LAURETH2 SULFOSUCCINATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM/MEA LAURETH-2 SULFOSUCCINATE	SODIUM/MEA LAURETH2 SULFOSUCCINATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
SODIUM/MEA-PEG-3 COCAMIDE SULFATE	SODIUM/MEAPEG3 COCAMIDE SULFATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SODIUM/MEA-PEG-3 COCAMIDE SULFATE	SODIUM/MEAPEG3 COCAMIDE SULFATE		The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
SODIUM/TEA C12-13 PARETH-3 SULFATE	Sodium/TEA C1213 Pareth3 Sulfate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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SODIUM/TEA-LAUROYL COLLAGEN AMINO ACIDS	Sodium/TEAlauroyl collagen amino acids		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-LAUROYL COLLAGEN AMINO ACIDS	Triethanolamine	102716	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, it cannot be used in products where N-nitroso compounds may be formed.	
SODIUM/TEA-LAUROYL HYDROLYZED KERATIN	SODIUM/TEALAUROYL HYDROLYZED KERATIN		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-LAUROYL KERATIN AMINO ACIDS	sodium/TEAlauroyl keratin amino acids		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-UNDECYLENOYL ALGINATE	SODIUM/TEAUNDECYLENOYL ALGINATE	224580932	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-UNDECYLENOYL ALGINATE	SODIUM/TEA-UNDECYLENOYL ALGINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM/TEA-UNDECYLENOYL CARRAGEENAN	SODIUM/TEAUNDECYLENOYL CARRAGEENAN	224580910	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-UNDECYLENOYL CARRAGEENAN	SODIUM/TEA-UNDECYLENOYL CARRAGEENAN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SODIUM/TEA-UNDECYLENOYL COLLAGEN AMINO ACIDS	sodium/TEAundecylenoyl collagen amino acids		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SODIUM/TEA-UNDECYLENOYL HYDROLYZED COLLAGEN	SODIUM/TEAUNDECYLENOYL HYDROLYZED COLLAGEN		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-UNDECYLENOYL HYDROLYZED CORN PROTEIN	SODIUM/TEAUNDECYLENOYL HYDROLYZED CORN PROTEIN	222400080	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-UNDECYLENOYL HYDROLYZED SOY PROTEIN	SODIUM/TEAUNDECYLENOYL HYDROLYZED SOY PROTEIN	222400115	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SODIUM/TEA-UNDECYLENOYL HYDROLYZED WHEAT PROTEIN	SODIUM/TEAUNDECYLENOYL HYDROLYZED WHEAT PROTEIN	222400104	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
SOLANUM LYCOPERSICUM (TOMATO) FRUIT OIL	SOLANUM LYCOPERSICUM (TOMATO) FRUIT OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
SOLANUM TUBEROSUM (POTATO) STARCH	SOLANUM TUBEROSUM (POTATO) STARCH	9005-25-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SOLUBLE COLLAGEN	SOLUBLE COLLAGEN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SOLUBLE ELASTIN	SOLUBLE ELASTIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SOLUBLE KERATIN	SOLUBLE KERATIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SOLUBLE PROTEOGLYCAN	Soluble Proteoglycan		FDA has flagged this ingredient for possible bovine spongiform encephalopathy (BSE) contamination. To use this ingredient, a company must document that the ingredient is not of bovine origin.	
Solvent Green 3 (Uncertified D&C Green No. 6)	D&C Green 6	128-80-3	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Green 3 (Uncertified D&C Green No. 6)	Solvent Green 3 (Uncertified D&C Green No. 6)	128-80-3	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Green 7 (Uncertified D&C Green No. 8)	D&C Green 8	6358-69-6	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Green 7 (Uncertified D&C Green No. 8)	D&C Green No. 8	6358-69-6	The FDA requires this ingredients be used at less than 0.01%	

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Solvent Green 7 (Uncertified D&C Green No. 8)	Solvent Green 7 (Uncertified D&C Green No. 8)	6358-69-6	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Red 23 (Uncertified D&C Red No. 17)	D&C Red No. 17	85-86-9	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Red 23 (Uncertified D&C Red No. 17)	D&C Red No. 17	85-86-9	The EU prohibits this substance in products applied to mucous membranes.	
Solvent Red 23 (Uncertified D&C Red No. 17)	D&C Red No. 17	85-86-9	This substance may not contain detectable levels of paraphenylenediamine (PPD; pphenylenediamine).	
Solvent Red 23 (Uncertified D&C Red No. 17)	Solvent Red 23 (Uncertified D&C Red No. 17)	85-86-9	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Red 48 or Acid Red 92 (Uncertified D&C Red No. 27 or D&C Red No. 28)	CI 45410	18472-87-2	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Red 48 or Acid Red 92 (Uncertified D&C Red No. 27 or D&C Red No. 28)	Solvent Red 48 or Acid Red 92 (Uncertified D&C Red No. 27 or D&C Red No. 28)	18472-87-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Red 48 or Acid Red 92 (Uncertified D&C Red No. 27 or D&C Red No. 28)	Solvent Red 48 or Acid Red 92 (Uncertified D&C Red No. 27 or D&C Red No. 28)	18472-87-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Red 48 or Acid Red 92 (Uncertified D&C Red No. 27 or D&C Red No. 28)	Solvent Red 48 or Acid Red 92 (Uncertified D&C Red No. 27 or D&C Red No. 28)	18472-87-2	Per COSING, this ingredient must contain < 1% 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid and < 2% 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid	x
Solvent Red 72 (Uncertified D&C Orange No. 5)	D&C Orange No. 5	596-03-2	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Red 72 (Uncertified D&C Orange No. 5)	Solvent Red 72 (Uncertified D&C Orange No. 5)	596-03-2	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Red 73 or Acid Red 95 (Uncertified D&C Orange No. 10 or 11)	CI 45425	38577-97-8	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Red 73 or Acid Red 95 (Uncertified D&C Orange No. 10 or 11)	Solvent Red 73 or Acid Red 95 (Uncertified D&C Orange No. 10 or 11)	38577-97-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Red 73 or Acid Red 95 (Uncertified D&C Orange No. 10 or 11)	Solvent Red 73 or Acid Red 95 (Uncertified D&C Orange No. 10 or 11)	38577-97-8	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Violet 13 (Uncertified D&C Violet No. 2)	D&C Violet No. 2	81-48-1	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Violet 13 (Uncertified D&C Violet No. 2)	D&C Violet No. 2	81-48-1	This substance must contain <0.05% ptoluidine and <0.02% 1hydroxy9.10anthraquinone.	
Solvent Violet 13 (Uncertified D&C Violet No. 2)	Solvent Violet 13 (Uncertified D&C Violet No. 2)	81-48-1	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Solvent Yellow 33 (Uncertified D&C Yellow No. 11)	D&C Yellow No. 11	8003-22-3	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Solvent Yellow 33 (Uncertified D&C Yellow No. 11)	D&C Yellow No. 11	8003-22-3	The EU prohibits this substance in products applied to mucous membranes.	
Solvent Yellow 33 (Uncertified D&C Yellow No. 11)	Solvent Yellow 33 (Uncertified D&C Yellow No. 11)	8003-22-3	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
SORBETH-160 TRISTEARATE	SORBETH-160 TRISTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-2 BEESWAX	SORBETH-2 BEESWAX		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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SORBETH-2 COCOATE	SORBETH-2 COCOATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-2 HEXAOLEATE	SORBETH-2 HEXAOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-20 PENTAIOSOSTEARATE	SORBETH-20 PENTAIOSOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-20 TETRAIOSOSTEARATE	SORBETH-20 TETRAIOSOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-230 TETRAOLEATE	sorbeth230 tetreaoleate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SORBETH-3 ISOSTEARATE	SORBETH-3 ISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-3 TRISTEARATE	SORBETH-3 TRISTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-30 PENTAIOSOSTEARATE	SORBETH-30 PENTAIOSOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-30 TETRAIOSOSTEARATE	SORBETH-30 TETRAIOSOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-30 TETRAOLEATE	SORBETH-30 TETRAOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-30 TETRAOLEATE LAURATE	SORBETH-30 TETRAOLEATE LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-4 TETRAOLEATE	SORBETH-4 TETRAOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-40 PENTAIOSOSTEARATE	SORBETH-40 PENTAIOSOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-40 PENTAOLEATE	SORBETH-40 PENTAOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-40 TETRAIOSOSTEARATE	SORBETH-40 TETRAIOSOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-40 TETRAOLEATE	SORBETH-40 TETRAOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-50 PENTAIOSOSTEARATE	SORBETH-50 PENTAIOSOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SORBETH-50 TETRAISOSTEARATE	SORBETH-50 TETRAISOSTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-6 BEESWAX	PEG6 SORBITAN BEESWAX	8051-15-8	The Cosmetic Ingredient Review restricts this ingredient's use in products if the ingredient is formulated with PEG6, PEG20 or PEG75.	
SORBETH-6 BEESWAX	SORBETH-6 BEESWAX	8051-15-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-6 HEXASTEARATE	Sorbeth6 Hexastearate	66828-20-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SORBETH-6 HEXASTEARATE	SORBETH-6 HEXASTEARATE	66828-20-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-6 LAURATE	SORBETH-6 LAURATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-6 TETRAOLEATE	SORBETH-6 TETRAOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-60 TETRAOLEATE	SORBETH-60 TETRAOLEATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-60 TETRASTEARATE	SORBETH-60 TETRASTEARATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBETH-8 BEESWAX	PEG8 SORBITAN BEESWAX		The Cosmetic Ingredient Review restricts this ingredient's use in products if the ingredient is formulated with PEG6, PEG20 or PEG75.	
SORBETH-8 BEESWAX	SORBETH-8 BEESWAX		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SORBIC ACID	SORBIC ACID	110441	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
SORBIC ACID, ALUMINUM SALT	Aluminum Compounds	16899-72-2	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SORBIC ACID, POTASSIUM SALT, (E,E)-	POTASSIUM SORBATE	24634615	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
SORBITAN OLIVATE	SORBITAN OLIVATE	223706409	The Cosmetic Ingredient Review has determined this ingredient to be safe as used up to a concentration of 7.7%.	
Sorbitan Sesquicaprylate	Sorbitan Sesquicaprylate	91844-53-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SORBITAN UNDECYLENATE	SORBITAN UNDECYLENATE	93963-92-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SORBITOL	SORBITOL	50-70-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SOY AMINO ACIDS	SOY AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SOYAMIDE DEA	SOYAMIDE DEA	68425478	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
SOYAMIDE DEA	SOYAMIDE DEA	68425-47-8	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
SOYAMIDOPROPYL BETAINE	SOYAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
SOYAMIDOPROPYL DIMETHYLAMINE	Soyamidopropyl dimethylamine	68188307	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
SOYAMINE	SOYAMINE	61790189	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
SOYBEAN OIL PEG-36 ESTERS	Soybean Oil Peg36 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SOYBEAN OIL PEG-36 ESTERS	SOYBEAN OIL PEG-36 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SOYBEAN OIL, ETHOXYLATED	Soybean oil, ethoxylated	61791-23-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SOYTRIMONIUM CHLORIDE	SOYTRIMONIUM CHLORIDE	61790-41-8	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
SPHACELARIA SCOPARIA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SPHACELARIA SCOPARIA EXTRACT	SPHACELARIA SCOPARIA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SPHINGOLIPIDS	Sphingolipids	85116-74-1	The European Commission does not allow sphingolipids isolated from the brain and central nervous system of animals (known as Cerebrosides) per Annex II, Directive 419.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SPIRAMYCIN	Spiramycin	8025818	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SPIRULINA (ALGAE)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SPIRULINA AMINO ACIDS	SPIRULINA AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SPIRULINA MAXIMA (ALGAE)	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SPIRULINA MAXIMA (ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SQUALANE	SQUALANE	111013	This substance can be derived from either plant or animal sources. Only plant-derived squalane (i.e., phytosqualane) is acceptable in Verified products.	
SQUALENE	SQUALENE	111-02-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
STANNOUS FLUORIDE	stannous fluoride	7783473	The European Commission restricts this ingredient to a maximum concentration of 0.15% (calculated as F). When mixed with other fluorine compounds permitted under Annex III of the Cosmetics Regulation, the total F concentration must not exceed 0.15%. Required Warning: The European Commission requires the following on the product label/package: 'Contains stannous fluoride'; For any toothpaste with compounds containing fluorine in a concentration of 0.1 to 0.15% calculated as F unless it is already labelled as contraindicated for children (e.g. 'for adult use only') the following labelling is obligatory: 'Children of 6 years and younger: use a pea-sized amount for supervised brushing to minimise swallowing. In case of intake of fluoride from other sources consult a dentist or doctor.'	
STANNOUS FLUORIDE	STANNOUSFLUORIDE	7783473	Health Canada restricts the use of this ingredient to nonoral products.	
STANNOUS FLUORIDE	Fluoride containing substances	7783-47-3	Health Canada prohibits fluoride containing substances in oral products. EXCEPTION: sodium fluoride, sodium monofluorophosphate, and stannous fluoride may be used in medicinal oral products, as defined by Health Canada, Oral Health Products Monograph.	
STARCH ACETATE	STARCH ACETATE	9045-28-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STARCH DIETHYLAMINOETHYL ETHER	STARCH DIETHYLAMINOETHYL ETHER	9041-94-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STARCH HYDROXYPROPYLTRIMONIUM CHLORIDE	STARCH HYDROXYPROPYLTRIMONIUM CHLORIDE	56780-58-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STARCH TALLOWATE	STARCH TALLOWATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STARCH/ ACRYLATES/ ACRYLAMIDE COPOLYMER	STARCH/ ACRYLATES/ ACRYLAMIDE COPOLYMER		The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
STEAPYRIUM CHLORIDE	STEAPYRIUM CHLORIDE	14492-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
STEARKONIAM BENTONITE	STEARKONIAM BENTONITE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
STEARKONIAM CHLORIDE	STEARKONIAM CHLORIDE	122190	The European Commission restricts this ingredient to a maximum concentration of 3% (as benzalkonium chloride) in rinseoff hair (head) products. In the final products, the concentrations of benzalkonium chloride, bromide and saccharinate with alkyl chain of C14 or less must not exceed 0.1% (as benzalkonium chloride). Further, this ingredient is not allowed in sprays and powders. Sensitizing asthmagens designated by the Association of Occupational and Environmental Clinics. Required Warning: The European Commission requires the following warning text on the product label/package: 'Avoid contact with the eyes'	
STEARKONIAM CHLORIDE	STEARKONIAM CHLORIDE	122-19-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
STEARKONIAM CHLORIDE	Benzyltrimethylstearylammonium Chloride	122190	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
STEARKONIAM DIMETHICONE PEG-8 PHTHALATE	Stearalkonium Dimethicone Peg8 Phthalate		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARKONIAM HECTORITE	STEARKONIAM HECTORITE	12691-60-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
STEARKONIAM HECTORITE	CLAYS AND MINERALS	12691-60-0	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
STEARAMIDE DEA	STEARAMIDE DEA	93823	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitrite-free containers	
STEARAMIDE DEA	STEARAMIDE DEA	93-82-3	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nitroso compounds cannot form.	
STEARAMIDE MEA	STEARAMIDE MEA	111-57-9	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nitroso compounds cannot form (do not contain nitrosating agents).	
STEARAMIDE MEA	STEARAMIDE MEA	111-57-9	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nitroso compounds may be formed.	
STEARAMIDE MIPA	STEARAMIDE MIPA	35627-96-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STEARAMIDOPROPYL BETAINE	stearamidopropyl betaine	6179448	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
STEARAMIDOPROPYL DIMETHICONE	STEARAMIDOPROPYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STEARAMIDOPROPYL DIMETHYLAMINE	Stearamidopropyl dimethylamine	7651027	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
STEARAMINE	STEARAMINE	124301	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
STEARAMINE OXIDE	STEARAMINE OXIDE	2571-88-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products.	
STEARDIMONIUM HYDROXYPROPYL PANTHENYL PEG-7 DIMETHICONE PHOSPHATE	Steardimonium Hydroxypropyl Panthenyl Peg7 Dimethicone Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARDIMONIUM HYDROXYPROPYL PANTHENYL PEG-7 DIMETHICONE PHOSPHATE CHLORIDE	Steardimonium Hydroxypropyl Panthenyl Peg7 Dimethicone Phosphate Chloride	220714772	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARDIMONIUM HYDROXYPROPYL PANTHENYL PEG-7 DIMETHICONE PHOSPHATE CHLORIDE	STEARDIMONIUM HYDROXYPROPYL PANTHENYL PEG-7 DIMETHICONE PHOSPHATE CHLORIDE	220714-77-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
STEARDIMONIUM HYDROXYPROPYL PEG-7 DIMETHICONE PHOSPHATE CHLORIDE	Steardimonium Hydroxypropyl Peg7 Dimethicone Phosphate Chloride	220714636	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-10	STEARETH10		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-10 ALLYL ETHER/ACRYLATES COPOLYMER	STEARETH-10 ALLYL ETHER/ACRYLATES COPOLYMER	109292-17-3	These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STEARETH-100	STEARETH100	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-100/PEG-136/HDI COPOLYMER	Steareth100/peg136/hdi Copolymer	103777691	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-100/PEG-136/HDI COPOLYMER	STEARETH-100/PEG-136/HDI COPOLYMER	103777-69-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STEARETH-12	STEARETH-12		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
STEARETH-16	STEARETH16	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-2	STEARETH2	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-20	STEARETH20	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-21	STEARETH21	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-4	STEARETH4	9005009	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARETH-80	STEARETH-80	9005-00-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
STEARETHS-(2-100)	Steareths(2100)	9005-00-9	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEAROXYDIMETHICONE	STEAROXYDIMETHICONE	68554-53-0	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STEAROXYMETHICONE/ DIMETHICONE COPOLYMER	STEAROXYMETHICONE/ DIMETHICONE COPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
STEAROXYMETHICONE/ DIMETHICONE COPOLYMER	STEAROXYMETHICONE/ DIMETHICONE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STEAROXYTRIMETHYLSILANE	Stearoxytrimethylsilane	18748986	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.55%	
STEAROYL INULIN	STEAROYL INULIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STEAROYL SARCOSINE	STEAROYL SARCOSINE	142-48-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, it cannot be used in products where Nnitroso compounds may be formed.	
STEARTRIMONIUM BROMIDE	STEARTRIMONIUM BROMIDE		Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
STEARYL ACETATE	STEARYL ACETATE	822-23-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
STEARYL ALCOHOL	STEARYL ALCOHOL	112925	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
STEARYL BENZOATE	STEARYL BENZOATE	10578-34-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
STEARYL BENZOATE	Benzoate	10578-34-4	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
STEARYL BETAINE	STEARYL BETAINE	820-66-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
STEARYL CAPRYLATE	STEARYL CAPRYLATE	18312-31-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
STEARYL CITRATE	STEARYL CITRATE	1323-66-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
STEARYL DIMETHICONE	STEARYL DIMETHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
STEARYL DIMETHICONE	STEARYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
STEARYL GLYCYRRHETINATE	STEARYL GLYCYRRHETINATE	13832-70-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%. Additionally, CIR has identified the following potential contaminants/impurities in this ingredient: pesticides/PCB, toxic metals, and heavy metals.	
STEARYL HDI/PEG-50 COPOLYMER	Stearyl Hdi/peg50 Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
STEARYL HDI/PEG-50 COPOLYMER	STEARYL HDI/PEG-50 COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STEARYL HEPTANOATE	STEARYL HEPTANOATE	66009-41-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
STEARYL METHICONE	STEARYL METHICONE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
STEARYL METHICONE	STEARYL METHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
STEARYL PALMITATE	STEARYL PALMITATE	2598-99-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
STEARYL PHOSPHATE	STEARYL PHOSPHATE	39471-52-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
STEARYL STEARATE	STEARYL STEARATE	2778-96-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
STEARYL TRIETHOXYSILANE	STEARYL TRIETHOXYSILANE	7399000	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 2.6%	
STEARYL/LAURYL METHACRYLATE CROSS POLYMER	STEARYL/LAURYL METHACRYLATE CROSS POLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
STEARYL/LAURYL METHACRYLATE CROSS POLYMER	STEARYL/LAURYL METHACRYLATE CROSS POLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
STEEL, ALUMINUM NICKEL	Aluminum Compounds	61431-86-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
STEEL, ALUMINUM NICKEL	Nickel Compounds	61431-86-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
STIBNITE (SB2S3)	CLAYS AND MINERALS	1317-86-8	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
STORAX	LIQUIDAMBAR STYRACIFLUA OIL	8046193	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
STORAX	STORAX	8046193	The European Commission restricts this ingredient to a maximum concentration of 0.6%.	
STORAX	Styrax	8046193	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.12% Category 2) 0.034% Category 3) 0.69% Category 4) 0.64% Category 5A) 0.16% Category 5B) 0.16% Category 5C) 0.16% Category 5D) 0.16% Category 6) 0.38% Category 7A) 1.3% Category 7B) 1.3% Category 8) 0.068% Category 9) 1.3% Category 10A) 4.5% Category 10B) 4.5% Category 11A) 2.5% Category 11B) 2.5% Category 12) No Restriction ; Benzopyrene and 1,2Benanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Birch tar oils or rectified Opoponax oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STRONTIUM	Strontium	7440246	Health Canada restricts this ingredient to a maximum concentration of 3.5% strontium in depilatory products and 6.6% (as salt, or equal to or less than 2.1% elemental strontium) in all other products. Additionally, Health Canada prohibits its use in aerosol products.	
STRONTIUM ACETATE	STRONTIUM ACETATE	543942	The European Commission restricts this ingredient to a maximum concentration of 3.5% (as strontium). When mixed with other permitted strontium products, the total strontium content cannot exceed 3.5%. Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains strontium acetate'; 'Frequent use by children is not advisable'	
STRONTIUM CHLORIDE	STRONTIUM CHLORIDE	10476854	The European Commission restricts this ingredient to a maximum concentration of 3.5% as strontium (when mixed with other permitted strontium products, the total strontium content must not exceed 3.5%) in oral products, and 2.1% as strontium (when mixed with other permitted strontium products, the total strontium content must not exceed 2.1%) in shampoo and face products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains strontium chloride'; 'Frequent use by children is not advisable'.	
STRONTIUM CHLORIDE HEXAHYDRATE	STRONTIUM CHLORIDE	10476854	The European Commission restricts this ingredient to a maximum concentration of 3.5% as strontium (when mixed with other permitted strontium products, the total strontium content must not exceed 3.5%) in oral products, and 2.1% as strontium (when mixed with other permitted strontium products, the total strontium content must not exceed 2.1%) in shampoo and face products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains strontium chloride'; 'Frequent use by children is not advisable'.	
STRONTIUM CHLORIDE HEXAHYDRATE	Strontium chloride hexahydrate	10025704	The European Commission restricts this ingredient to a maximum concentration of 3.5% as strontium (when mixed with other permitted strontium products, the total strontium content must not exceed 3.5%) in oral products, and 2.1% as strontium (when mixed with other permitted strontium products, the total strontium content must not exceed 2.1%) in shampoo and face products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Contains strontium chloride'; 'Frequent use by children is not advisable'.	
STRONTIUM HYDROXIDE	Strontium hydroxide	1311100	The European Commission restricts this ingredient to a maximum concentration of 3.5% (as strontium) with a pH no higher than 12.7 as a pH adjuster in depilatories. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with the eyes'	
STRONTIUM HYDROXIDE	Strontium hydroxide	18480074	The European Commission restricts this ingredient to a maximum concentration of 3.5% (as strontium) with a pH no higher than 12.7 as a pH adjuster in depilatories. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with the eyes'	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STRONTIUM HYDROXIDE	Strontium hydroxide	18480074	The European Commission restricts this ingredient to a maximum concentration of 3.5% (as strontium) with a pH no higher than 12.7 as a pH adjuster in depilatories. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with the eyes'	
STRONTIUM PEROXIDE	Strontium peroxide	1314187	The European Commission restricts this ingredient to a maximum concentration of 4.5% (as strontium) in rinseoff hair products. Additionally, all products must meet the hydrogen peroxide release requirements. Required Warning: The European Commission requires the following on the product label/package: 'Avoid contact with eyes'; 'Rinse eyes immediately if product comes into contact with them'; 'For professional use only Wear suitable gloves'	
STRONTIUM PEROXIDE	Strontium peroxide	1314187	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. For products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. For rinseoff hair products, the concentration cannot exceed 4.5% (as strontium), and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid	
STRONTIUM SULFIDE	strontium sulfide	1314961	The European Commission restricts this ingredient to a maximum concentration of 2% (as sulphur in an alkali sulfide) or 6% (as sulphur in alkaline earth sulfide) in depilatories. Additionally, the product's pH must be less than or equal to 12.7. Required Warning: The European Commission requires the following warning text on the product label/package: 'Keep out of reach of children'; 'Avoid contact with eyes'	
STRONTIUM SULFIDE	STRONTIUMSULFIDE	1314961	Health Canada restricts this ingredient to a maximum concentration of 6% (sulfur) in depilatory products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
STRONTIUM THIOGLYCOLATE	STRONTIUM THIOGLYCOLATE	38337950	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professional use only.'	
STYRENE	styrene	100425	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
STYRENE	styrene	100425	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
STYRENE/ BUTADIENE COPOLYMER	STYRENE/ BUTADIENE COPOLYMER	9003-55-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STYRENE/ PVP COPOLYMER	STYRENE/ PVP COPOLYMER	25086-29-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
Styrene/Acrylamide Copolymer	STYRENE/ ACRYLAMIDE COPOLYMER	24981133	The European Commission restricts this ingredient's residual acrylamide content to a maximum of 0.1 mg/kg for body leaveon products and 0.5 mg/kg for all other products.	
Styrene/Acrylates/Ammonium Methacrylate Copolymer	Styrene/Acrylates/Ammonium Methacrylate Copolymer		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
STYRENE/ACRYLATES/DIMETHICONE ACRYLATE CROSSPOLYMER	STYRENE/ACRYLATES/DIMETHICONE ACRYLATE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER	STYRENE/ACRYLATES/ETHYLHEXYL ACRYLATE/LAURYL ACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STYRENE/ISOPRENE COPOLYMER	STYRENE/ISOPRENE COPOLYMER	25038-32-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STYRENE/METHYLSTYRENE COPOLYMER	STYRENE/METHYLSTYRENE COPOLYMER	9011-11-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STYRENE/STEARYL METHACRYLATE CROSSPOLYMER	STYRENE/STEARYL METHACRYLATE CROSSPOLYMER	91838-84-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
STYRENE/VA COPOLYMER	STYRENE/VA COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SUCCINIC ACID	SUCCINIC ACID	110-15-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2% in leaveon products (up to 26% in rinseoff products).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SUCRALOSE	SUCRALOSE	56038-13-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SUCROSE	SUCROSE	57-50-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SUCROSE BENZOATE	Benzoate	12738-64-6	The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
SULFATED PEANUT OIL	Peanut oil, extracts and derivatives	73138791	Europe restricts this chemical: Maximum concentration of peanut proteins: 0.5 ppm	
Sulfur Containing Mineral Acid	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
SULFUR-CONTAINED ALUMINUM SILICATE	Aluminum Compounds		Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFUR-CONTAINED ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1 ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
SULFURIC ACID, ALUMINIUM SALT (3:2), HEXADECYDRATE	Aluminum Compounds	16828-11-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, ALUMINUM SALT (3:2), OCTADECYDRATE	Aluminum Compounds	7784-31-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, AMMONIUM CHROMIUM(3+) SALT (2:1:1), DODECYDRATE	Chromium Compounds	10022-47-6	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, AMMONIUM NICKEL(2+) SALT (2:2:1)	Nickel Compounds	15699-18-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, AMMONIUM NICKEL(2+) SALT (2:2:1), HEXADECYDRATE	Nickel Compounds	7785-20-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, AMMONIUM NICKEL(2+) SALT (3:2:2)	Nickel Compounds	25749-08-0	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, CHROMIUM SALT	Chromium Compounds	14489-25-9	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, CHROMIUM(3+) SALT (3:2), PENTADECYDRATE	Chromium Compounds	10031-37-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIC ACID, NICKEL(2+) SALT (1:1), HEPTADECYDRATE	Nickel Compounds	10101-98-1	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
SULFURIZED TEA-RICINOLEATE	SULFURIZED TEARICINOLEATE	222721882	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leave-on products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitrite-free containers.	
SULISOBENZONE	BENZOPHENONE4	4065456	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2.5%.	
SUNFLOWER SEED OIL PEG-32 ESTERS	Sunflower Seed Oil Peg32 Esters		The U.S. Food & Drug Administration has identified 1,4-dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4-dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SUNFLOWER SEED OIL PEG-32 ESTERS	SUNFLOWER SEED OIL PEG-32 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SUNFLOWER SEED OIL PEG-8 ESTERS	Sunflower Seed Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SUNFLOWER SEED OIL PEG-8 ESTERS	SUNFLOWER SEED OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SUNFLOWERSEEDAMIDOPROPYL DIMETHYLAMINE	Sunflowerseedamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
Sunset Yellow (Uncertified FD&C Yellow No. 6)	FD&C YELLOW NO. 6	2783-94-0	This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine.	
Sunset Yellow (Uncertified FD&C Yellow No. 6)	Sunset Yellow (Uncertified FD&C Yellow No. 6)	2783-94-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
Sunset Yellow (Uncertified FD&C Yellow No. 6)	Sunset Yellow (Uncertified FD&C Yellow No. 6)	2783-94-0	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/EC (E 110)	x
Sunset Yellow (Uncertified FD&C Yellow No. 6) Lake	FD&C YELLOW NO. 6	2783-94-0	This substance must contain <2ppm lead, <1ppm cadmium, <1 ppb combined (free+bound) benzidine.	
Sunset Yellow (Uncertified FD&C Yellow No. 6) Lake	Sunset Yellow (Uncertified FD&C Yellow No. 6) Lake	2783-94-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
SWEET ALMOND AMINO ACIDS	SWEET ALMOND AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SWEET ALMOND OIL PEG-8 ESTERS	Sweet Almond Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SWEET ALMOND OIL PEG-8 ESTERS	SWEET ALMOND OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
SYMPHYTUM OFFICINALE (COMFREY)	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.		Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) EXTRACT	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) INFUSION	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) LEAF	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) LEAF EXTRACT	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SYMPHYTUM OFFICINALE (COMFREY) ROOT	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) ROOT CELL EXTRACT	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) ROOT EXTRACT	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) ROOT INFUSION	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYMPHYTUM OFFICINALE (COMFREY) TEA	Pyrrolizidine alkaloids; botanicals containing pyrrolizidine alkaloids.	84696-05-9	Products should not contain detectable levels of pyrrolizidine alkaloids because the EMA recommends that exposure to toxic PAs should be kept as low as practically achievable due to toxicity and putative carcinogenicity.	
SYNECHOCOCCUS ELONGATUS/ALGAE FERMENT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
SYNTANOL DS 6	Syntanol Ds 6	85422-93-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
SYNTHETIC BEESWAX	SYNTHETIC BEESWAX	71243-51-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 18%.	
SYNTHETIC FLUORPHLOGOPITE	SYNTHETIC FLUORPHLOGOPITE	137228-74-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
SYNTHETIC JOJOBA OIL	SYNTHETIC JOJOBA OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
SYNTHETIC WAX	SYNTHETIC WAX	8002742	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material, with DMSO extractives below 3% and PAH levels must be below 10 ppb. Mineral waxes must have an average molecular weight of at least 500 Daltons and a viscosity value greater than or equal to 11 centistokes at 100oC or greater than or equal to 8 centistokes at 120oC. Additionally, no more than 5% of hydrocarbons with a chain length less than C25 may be present.	
SYZYGIUM AROMATICUM (CLOVE)	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
SYZYGIUM AROMATICUM (CLOVE)	Eugenol	97530	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.2% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.5% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.4% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
SYZYGIUM AROMATICUM (CLOVE) FLOWER OIL	Eugenol	97530	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
SYZYGIUM AROMATICUM (CLOVE) FLOWER OIL	Eugenol	97530	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.2% in lip products, 0.2% in deodorants/antiperspirants, 0.5% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.5% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 4.3% in mouthwashes, breath sprays, and toothpastes, 0.4% in intimate wipes, and baby wipes, 0.5% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
t-BUTYL ACETATE	TBUTYL ACETATE	540-88-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
T-BUTYL ALCOHOL	TBUTYL ALCOHOL	75-65-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
TAGETES MINUTA (MUSTER JOHN HENRY) OIL	TAGETESOIL	8016840	Health Canada restricts this ingredient to a maximum concentration of 0.01% in leaveon products.	
TAGETES MINUTA (MUSTER JOHN HENRY) OIL	Tagetes minuta flower extract; Tagetes minuta flower oil	91770-75-1	The European Union restricts this ingredient to 0.01% in leave-on products and 0.01% in rinse-off products. Additionally, the Alpha terthienyl (terthiophen) content in the extract/oil $\leq 0,35$ %. In case of combined use with Tagetes patula the total combined content of Tagetes in ready for use preparation shall not exceed the maximum concentration of 0.01% in leave-on products and 0.01% in rinse-off products. This substance is prohibited in sunscreen products.	x
TAGETES MINUTA FLOWER EXTRACT	TAGETESOIL	8016840	Health Canada restricts this ingredient to a maximum concentration of 0.01% in leaveon products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TAGETES MINUTA FLOWER EXTRACT	Tagetes minuta flower extract; Tagetes minuta flower oil	91770-75-1	The European Union restricts this ingredient to 0.01% in leave-on products and 0.01% in rinse-off products. Additionally, the Alpha terthienyl (terthiophen) content in the extract/oil ≤ 0,35 %. In case of combined use with Tagetes patula the total combined content of Tagetes in ready for use preparation shall not exceed the maximum concentration of 0.01% in leave-on products and 0.01% in rinse-off products. This substance is prohibited in sunscreen products.	x
TAGETES MINUTA FLOWER OIL	TAGETESOIL	8016840	Health Canada restricts this ingredient to a maximum concentration of 0.01% in leaveon products.	
TAGETES MINUTA FLOWER OIL	Tagetes minuta flower extract; Tagetes minuta flower oil	91770-75-1	The European Union restricts this ingredient to 0.01% in leave-on products and 0.01% in rinse-off products. Additionally, the Alpha terthienyl (terthiophen) content in the extract/oil ≤ 0,35 %. In case of combined use with Tagetes patula the total combined content of Tagetes in ready for use preparation shall not exceed the maximum concentration of 0.01% in leave-on products and 0.01% in rinse-off products. This substance is prohibited in sunscreen products.	x
TAGETES OIL	TAGETESOIL	8016840	Health Canada restricts this ingredient to a maximum concentration of 0.01% in leaveon products.	
TAGETES OIL	tagetes oil and absolute	8016840	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in leaveon products	
TAGETES OIL	tagetes oil and absolute	8016840	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.010% Category 2) 0.010% Category 3) 0.010% Category 4) 0.010% Category 5A) 0.010% Category 5B) 0.010% Category 5C) 0.010% Category 5D) 0.010% Category 6) 0.010% Category 7A) no restriction Category 7B) 0.010% Category 8) 0.010% Category 9) no restriction Category 10A) no restriction Category 10B) 0.010% Category 11A) no restriction Category 11B) 0.010% Category 12) no restriction; The content of alphaTerthienyl (Terthiophene, CAS number 1081341) in Tagetes patula and Tagetes minuta oils and absolutes must not exceed 0.35 %.	
TAGETES PATULA FLOWER EXTRACT	TAGETESOIL	8016840	Health Canada restricts this ingredient to a maximum concentration of 0.01% in leaveon products.	
TAGETES PATULA FLOWER EXTRACT	tagetes oil and absolute	91722291	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.01% in leaveon products	
TAGETES PATULA FLOWER EXTRACT	Tagetes patula flower extract; Tagetes patula flower oil	91722-29-1	The European Union restricts this ingredient to 0.01% in leave-on products and 0.01% in rinse-off products. Additionally, the Alpha terthienyl (terthiophen) content in the extract/oil ≤ 0,35 %. In case of combined use with Tagetes minuta the total combined content of Tagetes in ready for use preparation shall not exceed the maximum concentration of 0.01% in leave-on products and 0.01% in rinse-off products. This substance is prohibited in sunscreen products.	x
TAGETES PATULA FLOWER OIL	TAGETESOIL	8016840	Health Canada restricts this ingredient to a maximum concentration of 0.01% in leaveon products.	
TAGETES PATULA FLOWER OIL	Tagetes patula flower extract; Tagetes patula flower oil	91722-29-1	The European Union restricts this ingredient to 0.01% in leave-on products and 0.01% in rinse-off products. Additionally, the Alpha terthienyl (terthiophen) content in the extract/oil ≤ 0,35 %. In case of combined use with Tagetes minuta the total combined content of Tagetes in ready for use preparation shall not exceed the maximum concentration of 0.01% in leave-on products and 0.01% in rinse-off products. This substance is prohibited in sunscreen products.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TALC	TALC	14807966	Required Warning: The European Commission requires the following on the product label/package: 'Keep powder away from children's nose and mouth'	
TALC	TALC	14807-96-6	Required Warning: Health Canada requires the following warning text on the packaging/label of powder cosmetics intended for infants and children: 'Keep out of reach of children'; 'Keep powder away from child's face to avoid inhalation which can cause breathing problems'.	
TALC	CLAYS AND MINERALS	14807-96-6	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
TALC	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TALL OIL	Tall oil	8002264	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
TALL OIL	Tall Oil, Crude	8002264	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TALL OIL ACID	Tall Oil Acid	61790-12-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 8%.	
TALLAMIDE DEA TALLAMIDE DEA	TALLAMIDE DEA TALLAMIDE DEA	68155204	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
TALLAMIDOPROPYL DIMETHYLAMINE	Tallamidopropyl dimethylamine	68650793	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
TALLOW AMINE	TALLOW AMINE	61790338	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
TALLOW BETAINE	TALLOW BETAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TALLOW GLYCERIDE	TALLOW GLYCERIDE	61789-13-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
TALLOW GLYCERIDE	TALLOW GLYCERIDES	61789-13-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
TALLOW GLYCERIDES	TALLOW GLYCERIDES	91723-30-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TALLOWALKONIUM CHLORIDE	TALLOWALKONIUM CHLORIDE	61789751	The European Commission restricts this ingredient to a maximum concentration of 3% (as benzalkonium chloride) in rinseoff hair (head) products. In the final products, the concentrations of benzalkonium chloride, bromide and saccharinate with alkyl chain of C14 or less must not exceed 0.1% (as benzalkonium chloride). Required Warning: The European Commission requires the following warning text on the product label/package: 'Avoid contact with the eyes'	
TALLOWAMIDE DEA	TALLOWAMIDE DEA	68140089	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
TALLOWAMIDE DEA	TALLOWAMIDE DEA	68140-08-9	The Cosmetic Ingredient Review restricts the DEA concentration of this ingredient to those considered safe in the CIR safety assessment of DEA and its salts. Additionally, CIR restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form.	
TALLOWAMIDE MEA	TALLOWAMIDE MEA	68440-25-5	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
TALLOWAMIDOPROPYL DIMETHYLAMINE	Tallowamidopropyl dimethylamine	68425503	This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
TALLOWAMIDOPROPYL HYDROXYSULTAINE	TALLOWAMIDOPROPYL HYDROXYSULTAINE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TALLOWETH-18	TALLOWETH18	61791-28-4	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TALLOWTRIMONIUM CHLORIDE	TALLOWTRIMONIUM CHLORIDE	8030-78-2	Per COSING, prohibited for use in children's products, lip products, products that may lead to lung exposure, and/or products that will come into contact with mucosal membranes.	x
TAMARINDUS INDICA SEED GUM	TAMARINDUS INDICA SEED GUM		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TANAKURA CLAY	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
Tangerine oil terpenes	Citrus oils and other furocoumarins containing essential oils (Bergapten)	68608-38-8	The International Fragrance Association restricts the total bergapten (5methoxypsoralen) concentration of this ingredient (in combination with other citrus oils) to a maximum concentration of 15 ppm in the final product for leaveon products.	
TAPIOCA STARCH	TAPIOCA STARCH	9005-25-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TAR ACIDS, CRESYLIC, RESIDUES	TAR ACIDS, CRESYLIC, RESIDUES	68555248	The European Commission bans this ingredient from use in cosmetics if its benzene content is over 0.1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA CARBOMER	TEA CARBOMER		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA COCOATE	TEA COCOATE	61790645	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA COCOYL GLUTAMATE	TEA COCOYL GLUTAMATE	68187291	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA COCOYL GLUTAMATE	TEAcocoyl glutamate	68187-29-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 11%	
TEA COCOYL HYDROLYZED COLLAGEN	TEA COCOYL HYDROLYZED COLLAGEN	68952169	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA DODECYLBENZENESULFONATE	TEA DODECYLBENZENESULFONATE	27323417	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA DODECYLBENZENESULFONATE	TEADODECYLBENZENESULFONATE	27323-41-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	
TEA ISOSTEARATE	TEA ISOSTEARATE	88120121	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA ISOSTEARATE	TEAIsostearate	88120-12-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA LAUROYL GLUTAMATE	TEA LAUROYL GLUTAMATE	53576491	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA LAUROYL HYDROLYZED COLLAGEN	TEA LAUROYL HYDROLYZED COLLAGEN		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA MYRISTATE	TEA MYRISTATE	41669403	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA MYRISTATE	TEA MYRISTATE	41669-40-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TEA OLEATE	TEA OLEATE	2717159	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA PALM KERNEL SARCOSINATE	TEA PALM KERNEL SARCOSINATE	73049986	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA PALMITATE	TEA PALMITATE	49719600	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA PALMITATE	TEAPalmitate	49719-60-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA PEG 3 COCAMIDE SULFATE	TEA PEG 3 COCAMIDE SULFATE	73246943	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TEA PEG 3 COCAMIDE SULFATE	TEA PEG 3 COCAMIDE SULFATE	73246943	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA PEG 3 COCAMIDE SULFATE	TEAPEG3 Cocamide Sulfate	73246-94-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself. Additionally, this ingredient may not be used in products in which Nnitroso compounds may form (do not contain nitrosating agents).	
TEA STEARATE	TEA STEARATE	4568289	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-ABIETOYL HYDROLYZED COLLAGEN	TEAABIETOYL HYDROLYZED COLLAGEN	68918774	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-ACRYLATES/ACRYLONITROGENS COPOLYMER	TEAACRYLATES/ACRYLONITROGENS COPOLYMER		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	TEAACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA-ALGINATE	TEAALGINATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-ALGINATE	TEA-ALGINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TEA-C10-15 ALKYL SULFATE	TEAC1015 Alkyl Sulfate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C11-15 ALKYL SULFATE	TEAC1115 Alkyl Sulfate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C11-15 PARETH SULFATE	TEAC1115 Pareth Sulfate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C12-13 ALKYL PHOSPHATE	TEAC1213 ALKYL PHOSPHATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C12-13 ALKYL SULFATE	TEAC1213 Alkyl Sulfate	223704696	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C12-13 PARETH-3 SULFATE	TEAC1213 Pareth3 Sulfate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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TEA-C12-14 ALKYL PHOSPHATE	TEAC1214 ALKYL PHOSPHATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C12-14 ALKYL SULFATE	TEAC1214 Alkyl Sulfate	90583189	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C12-15 ALKYL SULFATE	TEAC1215 Alkyl Sulfate	68815258	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-C8-18 PERFLUOROALKYLETHYL PHOSPHATE	TEAC818 PERFLUOROALKYLETHYL PHOSPHATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-CANOLATE	TEACanolate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-COCAMIDE DIACETATE	TEACOCAMIDE DIACETATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-COCO-SULFATE	TEACocoSulfate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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TEA-COCOYL ALANINATE	TEACOCOYL ALANINATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-COCOYL ALANINATE	TEACOCOYL ALANINATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.8%	
TEA-COCOYL GLUTAMINATE	TEAcocoyl glutamate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-COCOYL GLYCINATE	TEACOCOYL GLYCINATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-COCOYL HYDROLYZED SOY PROTEIN	TEACOCOYL HYDROLYZED SOY PROTEIN		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-COCOYL SARCOSINATE	TEACOCOYL SARCOSINATE	68411961	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-DEXTRIN OCTENYLSUCCINATE	TEADextrin OCTENYLSUCCINATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-DEXTRIN OCTENYLSUCCINATE	TEA-DEXTRIN OCTENYLSUCCINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA-DIETHANOLAMINOETHYL POLYISOBUTENYLSUCCINATE	TEADIETHANOLAMINOETHYL POLYISOBUTENYLSUCCINATE	67762805	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-DIMETHICONE PEG-7 PHOSPHATE	TEADIMETHICONE PEG7 PHOSPHATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TEA-DIMETHICONE PEG-7 PHOSPHATE	TEADIMETHICONE PEG7 PHOSPHATE	175893659	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-EDTA	TEAEDTA	60544709	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-GLYCERYL DIMALEATE	TEAGlyceryl Dimaleate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-HYDROCHLORIDE	TEAHydrochloride	637398	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-HYDROGENATED COCOATE	TEAHydrogenated Cocoate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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TEA-HYDROGENATED TALLOWOYL GLUTAMATE	TEAhydrogenated tallowoyl glutamate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-HYDROIODIDE	TEAHYDROIODIDE	7601538	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-ISOSTEAROYL HYDROLYZED COLLAGEN	TEAISOSTEAROYL HYDROLYZED COLLAGEN		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LACTATE	TEALACTATE	20475121	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LACTATE	TEALACTATE	20475-12-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10% and a minimum pH of 3.5 when used as an AHA. For salon products, the maximum concentration is 30% with a minimum pH of 3.0.	
TEA-LANETH-5 SULFATE	TEALANETH5 SULFATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAURAMINOPROPIONATE	TEALAURAMINOPROPIONATE	14171007	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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TEA-LAURATE	TEALaurate	2224499	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAURATE	TEALaurate	2224-49-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself.	
TEA-LAURATE/MYRISTATE	TEALaurate/Myristate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAURETH SULFATE	TEALaureth Sulfate	27028826	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TEA-LAURETH SULFATE	TEALaureth Sulfate	27028826	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAURETH SULFATE	TEALaureth Sulfate	27028-82-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself.	
TEA-LAURETH-4 PHOSPHATE	TEALAURETH4 PHOSPHATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TEA-LAURETH-4 PHOSPHATE	TEALAURETH4 PHOSPHATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAUROYL COLLAGEN AMINO ACIDS	TEAlauroyl collagen amino acids		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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TEA-LAUROYL COLLAGEN AMINO ACIDS	TEAlauroyl collagen amino acids		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.4%	
TEA-LAUROYL KERATIN AMINO ACIDS	TEALAUROYL KERATIN AMINO ACIDS		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAUROYL KERATIN AMINO ACIDS	TEA-LAUROYL KERATIN AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TEA-LAUROYL LACTYLATE	TEALAUROYL LACTYLATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAUROYL METHYLAMINOPROPIONATE	TEALAUROYL METHYLAMINOPROPIONATE	89353559	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAUROYL SARCOSINATE	TEALAUROYL SARCOSINATE	16693531	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAUROYL/MYRISTOYL ASPARTATE	TEALAUROYL/MYRISTOYL ASPARTATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-LAUROYL/MYRISTOYL ASPARTATE	TEA-LAUROYL/MYRISTOYL ASPARTATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TEA-LAURYL PHOSPHATE	TEALAURYL PHOSPHATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA-MYRISTAMINOPROPIONATE	TEAMYRISTAMINOPROPIONATE	61791988	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-MYRISTOYL HYDROLYZED COLLAGEN	TEAMYRISTOYL HYDROLYZED COLLAGEN	69430235	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-OLEOYL HYDROLYZED COLLAGEN	TEAOLEOYL HYDROLYZED COLLAGEN		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-OLEOYL SARCOSINATE	TEAOLEOYL SARCOSINATE	17736082	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-OLEYL SULFATE	TEAOleyl Sulfate		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-PCA	TEAPCA	55901207	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	TEAPEG50 HYDROGENATED CASTOR OIL SUCCINATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA-PEG-50 HYDROGENATED CASTOR OIL SUCCINATE	TEAPEG50 HYDROGENATED CASTOR OIL SUCCINATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-PHENYLBENZIMIDAZOLE SULFONATE	TEAPHENYLBENZIMIDAZOLE SULFONATE	10020016	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-ROSINATE	TEAROSINATE	68002573	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-SALICYLATE	TEA SALICYLATE	2174165	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-SALICYLATE	TEASALICYLATE	2174-16-5	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
TEA-SALICYLATE	Salicylic acid and its salts	2174165	Europe restricts this chemical: Maximum concentration in ready for use preparation: 0.5%; Not to be used in products for children under 3 years of age, except for shampoos. Required Warning: Required warning: Not to be used for children under 3 years of age***. ***Solely for products which might be used for children under 3 years of age and which remain in prolonged contact with the skin.	
TEA-SALICYLATE	TEA-SALICYLATE	2174-16-5	Per COSING, the maximum concentration in RTU preparation is 0.5%. This ingredient is not to be used in products for children under 3 years of age (except for shampoos), in oral products, or in applications that may lead to exposure of the end-user's lungs by inhalation.	x
TEA-SORBATE	TEASORBATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-SORBATE	TEA Sorbate		The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TEA-SORBATE	TEA-SORBATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TEA-SULFATE	TEASULFATE	7376310	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-SULFATE	TEA Sulfate	7376-31-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself.	
TEA-SULFATE	TEA-SULFATE	7376-31-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TEA-TALLATE	TEATallate	8043274	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-TALLATE	TEATallate	8043-27-4	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when the levels of free diethanolamine do not exceed the present practices of use and concentration of diethanolamine itself. Additionally, this ingredient may not be used in products in which Nnitroso compounds may form (do not contain nitrosating agents).	
TEA-TRIDECYLBENZENESULFONATE	TEATRIDECYLBENZENESULFONATE	59599585	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-UNDECYLENATE	TEAUndecylenate	84471250	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TEA-UNDECYLENOYL HYDROLYZED COLLAGEN	TEAUNDECYLENOYL HYDROLYZED COLLAGEN	68951917	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

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TERGITOL MIN-FOAM 1X	Tergitol MinFoam 1x	103331-86-8	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TERPENE ALCOHOLS ACETATES	TERPENE ALCOHOLS ACETATES	69103011	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
TERPENE HYDROCARBONS	TERPENE HYDROCARBONS	68956569	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
TERPENES AND TERPENOIDS	TERPENES AND TERPENOIDS	65996987	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
TERPENES AND TERPENOIDS SINPINE	TERPENES AND TERPENOIDS SINPINE	68917635	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L	
TERPINOLENE	TERPINOLENE	586629	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
TERT-BUTYLHYDROQUINONE	TBUTYL HYDROQUINONE	1948-33-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
TERT-BUTYLHYDROQUINONE	TBHQ	1948330	Health Canada restricts this ingredient to a maximum concentration of 0.1%..	
TETRAAMINOPYRIMIDINE SULFATE	TETRAAMINOPYRIMIDINE SULFATE	5392289	The European Commission restricts this ingredient to a maximum concentration of 3.4% (calculated as sulphate) applied to hair after mixing under oxidative conditions in oxidative hair dye products, and 3.4% (calculated as sulphate) in nonoxidative hair dye products. Required Warning: The European Commission requires the following warning text on the product label/package: 'Hair colorants can cause severe allergic reactions'	
TETRACARBONYLNICKEL	Nickel Compounds	13463-39-3	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TETRACHLOROPHTHALIC ANHYDRIDE	tetrachlorophthalic anhydride	117088	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
TETRACHLOROPHTHALIC ANHYDRIDE	tetrachlorophthalic anhydride	117088	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TETRADECYLHEPTAETHOXYLATE	Tetradecylheptaethoxylate	40036-79-1	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TETRAETHYL SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TETRAHEXYLDECYL ASCORBATE	TETRAHEXYLDECYL ASCORBATE	183476-82-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TETRAMETHRIN	Tetramethrin	7696120	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TETRAMETHRIN	Tetramethrin	7696120	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
TETRAPOTASSIUM ETIDRONATE	TETRAPOTASSIUM ETIDRONATE	14860538	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as etidronic acid) in hair products, and 0.2% (as etidronic acid) in soap products.	
TETRASELMIS CHUI EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
TETRASODIUM (C-(3-(1-(3-(E-6-DICHLORO-5-CYANOPYRIMIDIN-5-YL(METHYL)AMINO)PROPYL)-1,6-DIHYDRO-2-HYDROXY-4-METHYL-6-OXO-3-PYRIDYLAZO)-4-SULFONATOPHENYLSULFAMOYL)PHTHALOCYANINE-A,B-D-TRISULFONATO(6-))NICKELATO II, WHERE A IS 1 OR 2 OR 3 OR 4,B IS 8 OR 9 OR 1	Nickel Compounds	148732-74-5	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
TETRASODIUM EDTA	TETRASODIUM EDTA	64-02-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TETRASODIUM EDTA DIHYDRATE	TETRASODIUM EDTA		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TETRASODIUM EDTA TETRAHYDRATE	TETRASODIUM EDTA		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TETRASODIUM ETIDRONATE	TETRASODIUM ETIDRONATE	3794830	The European Commission restricts this ingredient to a maximum concentration of 1.5% (as etidronic acid) in hair products, and 0.2% (as etidronic acid) in soap products.	
TETRASODIUM GLUTAMATE DIACETATE	Tetrasodium glutamate diacetate	51981216	This substance must not contain any residual nitrilotriacetic acid (NTA).	x
THEOBROMA CACAO (COCOA) SEED BUTTER	THEOBROMA CACAO (COCOA) SEED BUTTER	8002-31-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 37%	
THEOBROMA GRANDIFLORUM (THEOBROMA) SEED BUTTER	THEOBROMA GRANDIFLORUM SEED BUTTER	394236-97-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 7%.	
THEOBROMINE	THEOBROMINE	83-67-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
THEOPHYLLINE	THEOPHYLLINE	58-55-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
THIANTHOL	Thianthol	135-58-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.8% in rinse-off products (not applied to mucosa).	
THIANTHOL	Thianthol	135-58-0	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
THIANTHOL	Thianthol	135-58-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.8% in leave-on products (not applied to mucosa).	
THIMEROSAL	Thiomersal	54648	(*) The European Commission restricts this ingredient to a maximum concentration of 0.007% (of Hg) in eye products. If mixed with other mercurial compounds allowed by the European Commission, the maximum concentration of Hg remains fixed at 0.007%.	
THIOCTIC ACID	Thioctic acid	1077-28-7	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
THIOCYANIC ACID, AMMONIUM SALT, MIXT. WITH ALUMINUM HYDROXIDE	Aluminum Compounds	93269-06-8	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
THIOGLYCOLIC ACID	thioglycolic acid	68111	The European Commission restricts this ingredient to a maximum concentration of 8% (as thioglycolic acid) with a pH of 7 to 9.5 in general use hair products, 11% (as thioglycolic acid) with a pH of 7 to 9.5 in professional use hair products, 5% (as thioglycolic acid) with a pH of 7 to 12.7 in depilatories, and 2% (as thioglycolic acid) with a pH of 7 to 9.5 in hair rinseoff products. Required Warning: The European Commission requires the following conditions of use on the label/package of hair products, depilatories and hair rinseoff products: 'Avoid contact with eyes'; 'In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice'. Additionally, the following conditions of use are required on hair products and hair rinseoff products: 'Wear suitable gloves'. The European Commission also requires the following warning text on the label/package of hair products, depilatories, and hair rinseoff products: 'Contains thioglycolate'; 'Follow the instructions'; 'Keep out of reach of children'. Additionally, the following warning text is required on hair products: 'For professional use only.'	
THIOGLYCOLIC ACID	thioglycolic acid	68111	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15.2% in hair straighteners, permanent waves, tonics, dressings, wave sets, other noncoloring hair products, and hair dyes and colors.	
THIOGLYCOLIC ACID	THIOGLYCOLICACID	68111	Health Canada restricts this ingredient to a maximum concentration of 8% with a pH of 7 to 9.5 in hair waving and straightening products, 11% with a pH of 7 to 9.5 in hair waving and straightening products for professional use, and 5% with a pH of 7 to 12.7 in depilatory products. Required Warning: Health Canada requires the following text on the product package/label: 'Avoid direct skin contact, wear suitable gloves'; 'For professional use only'; 'Avoid contact with eyes and, in the event of contact with eyes, rinse immediately with plenty of water and seek medical attention'.	
THIOGLYCOLIC ACID	Thioglycolic acid and its salts	68111	Canada limits the use of this chemical in eyelash curling products at a maximum concentration of 11% (as thioglycolic acid) with a pH less than or equal to 9.5	
THIOGLYCOLIC ACID	Thioglycolic acid and its salts	68111	Canada limits the use of this chemical in hair dyes, waving or straightening products at a maximum concentration of 8% (as thioglycolic acid) with a pH less than or equal to 9.5	
THIOGLYCOLIC ACID	Thioglycolic acid and its salts	68111	Canada limits the use of this chemical in hair dyes, waving or straightening products for professional use at a maximum concentration of 11% (as thioglycolic acid) with a pH less than or equal to 9.5	
THIOGLYCOLIC ACID	Thioglycolic acid and its salts	68111	Canada limits the use of this chemical in depilatory products at a maximum concentration of 5% (as thioglycolic acid) with a pH less than or equal to 12.7	
THIOSULFATE SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
THIRAM	Thiram	137-26-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.5% in rinseoff products.	
THIRAM	Thiram	137-26-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in leaveon products.	

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THIRAM	Thiurams	137268	Canada restricts the use of this chemical in latex products at maximum concentration of 14%	
THREONINE	THREONINE	80-68-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
THUJA OCCIDENTALIS (ARBORVITAE) LEAF OIL	THUJA OCCIDENTALIS (ARBORVITAE) LEAF OIL	8007203	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THUJA OCCIDENTALIS BARK EXTRACT	THUJA OCCIDENTALIS BARK EXTRACT	90131581	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THUJA OCCIDENTALIS LEAF	THUJA OCCIDENTALIS LEAF	90131581	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THUJA OCCIDENTALIS LEAF EXTRACT	THUJA OCCIDENTALIS LEAF EXTRACT	90131581	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THUJA OCCIDENTALIS ROOT EXTRACT	THUJA OCCIDENTALIS BARK EXTRACT	90131581	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THUJA OCCIDENTALIS ROOT EXTRACT	THUJA OCCIDENTALIS LEAF EXTRACT	90131581	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THUJA OCCIDENTALIS ROOT EXTRACT	THUJA OCCIDENTALIS ROOT EXTRACT	90131581	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THUJA OCCIDENTALIS ROOT EXTRACT	THUJA OCCIDENTALIS LEAF EXTRACT	90131581	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
THYME	thyme		Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
THYMOL	thymol	89838	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
THYMOL	thymol	89-83-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in rinseoff products (not applied to mucosa).	
THYMOL	thymol	89-83-8	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in leaveon products (not applied to mucosa).	
THYMUS VULGARIS (COMMON THYME)	THYMUS VULGARIS (COMMON THYME)		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
THYMUS VULGARIS (COMMON THYME)	THYMUS VULGARIS (COMMON THYME)		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
THYMUS VULGARIS (COMMON THYME) LEAF EXTRACT	THYMUS VULGARIS (COMMON THYME) LEAF EXTRACT		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
THYMUS VULGARIS (COMMON THYME) LEAF EXTRACT	THYMUS VULGARIS (COMMON THYME) LEAF EXTRACT		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
THYMUS VULGARIS (COMMON THYME) OIL	Thymus vulgaris (common thyme) oil	8007463	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
THYMUS VULGARIS (COMMON THYME) OIL	Thymus vulgaris (common thyme) oil	8007463	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
THYMUS VULGARIS (THYME) EXTRACT	THYMUS VULGARIS (COMMON THYME) EXTRACT	84929511	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
THYMUS VULGARIS (THYME) EXTRACT	THYMUS VULGARIS (COMMON THYME) EXTRACT	84929511	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
THYMUS VULGARIS (THYME) LEAF	THYMUS VULGARIS (THYME) LEAF		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
THYMUS VULGARIS (THYME) LEAF	THYMUS VULGARIS (THYME) LEAF		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
THYMUS VULGARIS LEAF WATER	THYMUS VULGARIS LEAF WATER		The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
THYMUS VULGARIS LEAF WATER	THYMUS VULGARIS LEAF WATER		The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
TINOSORB M	TINOSORB M	103597-45-1	Per COSING, the maximum concentration in RTU preparation is 10% (if both the nano and non-nano forms of this substance are used, the total sum maximum use for both substances is 10%). Not to be used in applications that may lead to exposure of the end user's lungs by inhalation. Only nanomaterials having the following characteristics are allowed: Purity greater than or equal to 98,5 %, with 2,2'-methylene-bis- (6(2H-benzotriazol-2-yl)-4-(isooctyl)phenol) isomer fraction not exceeding 1,5 %; Solubility < 5 ng/L in water at 25 °C; Partition coefficient (Log Pow): 12,7 at 25 °C; Uncoated; Median particle size D50 (50 % of the number below this diameter): greater than or equal to 120 nm of mass distribution and/or greater than or equal to 60 nm of number size distribution.	x
TIPA-ACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER	TIPAACRYLATES/ETHYLHEXYL ACRYLATE COPOLYMER		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TIPA-LAURETH SULFATE	TIPALAURETH SULFATE		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TIPA-LAURETH SULFATE	TIPALAURETH SULFATE	107600362	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TIPA-LAURYL SULFATE	TIPALAURYL SULFATE	66161602	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TIPA-MYRISTATE	TIPAMYRISTATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TIPA-STEARATE	TIPASTEARATE	10042678	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TITANIUM DIOXIDE	Titanium dioxide	13463-67-7	Titanium dioxide is not allowed in powdered or spray products as it poses a cancer risk per IARC's assessment. Further, the European Commission restricts the maximum concentrations of arsenic to 3ppm, lead to 10ppm, mercury to 1ppm, cadmium to 1ppm, antimony to 50ppm and zinc to 50ppm.	
TITANIUM DIOXIDE	Titanium dioxide	13463-67-7	The European Commission restricts this ingredient to a maximum concentration of 25% when used as a UV filter. In the case of combined use with Titanium Dioxide (nano) used as a UV filter, the sum shall not exceed the limit of 25%.	
TITANIUM DIOXIDE	TITANIUM DIOXIDE	13463-67-7	Per the U.S. FDA., titanium dioxide shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 1 part per million. Antimony (as Sb), not more than 2 parts per million. Mercury (as Hg), not more than 1 part per million. Loss on ignition at 800 °C. (after drying for 3 hours at 105 °C.), not more than 0.5 percent. Water soluble substances, not more than 0.3 percent. Acid soluble substances, not more than 0.5 percent. TiO2, not less than 99.0 percent after drying for 3 hours at 105 °C. Lead, arsenic, and antimony shall be determined in the solution obtained by boiling 10 grams of the titanium dioxide for 15 minutes in 50 milliliters of 0.5N hydrochloric acid.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TITANIUM DIOXIDE	TITANIUM DIOXIDE	13463-67-7	Per COSING, this ingredient shall conform to the purity criteria as set out in Commission Directive 95/45/E (E 171) , Titanium dioxide in powder form containing 1 % or more of particles with aerodynamic diameter less than or equal to 10 micrometers, to be used in compliance with Annex III, No 321 (For use as a UV filter, see Annex VI, No 27)	x
TITANIUM DIOXIDE	TITANIUM DIOXIDE	13463-67-7	Per COSING, the maximum concentration in RTU preparation is 25% - In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit of 25%. Titanium dioxide in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$, to be used in compliance with Annex III, No 321. For the product types under letter (c) of column (f) in Annex III, No 321, the maximum concentration in ready for use preparation provided in column (g) of this entry applies. (For use as a colourant, see Annex IV, No 143).	x
TITANIUM DIOXIDE (sunscreen grade)	Titanium dioxide	13463-67-7	Titanium dioxide is not allowed in powdered or spray products as it poses a cancer risk per IARC's assessment. Further, the European Commission restricts the maximum concentrations of arsenic to 3ppm, lead to 10ppm, mercury to 1ppm, cadmium to 1ppm, antimony to 50ppm and zinc to 50ppm.	
TITANIUM DIOXIDE (sunscreen grade)	TITANIUM DIOXIDE (sunscreen grade)	13463-67-7	Per the U.S. FDA., titanium dioxide shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 1 part per million. Antimony (as Sb), not more than 2 parts per million. Mercury (as Hg), not more than 1 part per million. Loss on ignition at 800 °C. (after drying for 3 hours at 105 °C.), not more than 0.5 percent. Water soluble substances, not more than 0.3 percent. Acid soluble substances, not more than 0.5 percent. TiO ₂ , not less than 99.0 percent after drying for 3 hours at 105 °C. Lead, arsenic, and antimony shall be determined in the solution obtained by boiling 10 grams of the titanium dioxide for 15 minutes in 50 milliliters of 0.5N hydrochloric acid.	x
TITANIUM DIOXIDE (sunscreen grade)	TITANIUM DIOXIDE (sunscreen grade)	13463-67-7	Per COSING, the maximum concentration in RTU preparation is 25% - In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit of 25%. Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation Only nanomaterials having the following characteristics are allowed: — purity $\geq 99 \%$, — rutile form, or rutile with up to 5 % anatase, with crystalline structure and physical appearance as clusters of spherical, needle, or lanceolate shapes, — median particle size based on number size distribution $\geq 30 \text{ nm}$, — aspect ratio from 1 to 4.5. and volume specific surface area $\leq 460 \text{ m}^2/\text{cm}^3$, — coated with Silica, Hydrated Silica, Alumina, Aluminium Hydroxide, Aluminium Stearate, Stearic Acid, Trimethoxycaprylsilane, Glycerin, Dimethicone, Hydrogen Dimethicone, Simethicone; or coated with one of the follow-ing combinations: —Silica at a maximum concen-tration of 16 % and Cetyl Phosphate at a Per COSING, the maximum concentration of 6 %, —Alumina at a maximum con-centration of 7 % and Manga-nese Dioxide at a Per COSING, the maximum concentration of 0,7 % (not to be used in lip products), —Alumina at a maximum con-centration of 3 % and Triethoxycaprylsilane at a Per COSING, the maximum concentration of 9 %, — photocatalytic activity $\leq 10 \%$ compared to corresponding non-coated or non-doped re-ference, — nanoparticles are photostable in the final formulation. Wording of conditions of use and warnings: For face products containing Tita-nium Dioxide (nano) coated with the combination Alumina and Manganese Dioxide: Not to be used on the lips.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TITANIUM/TITANIUM DIOXIDE	TITANIUM/TITANIUM DIOXIDE		Per the U.S. FDA., titanium dioxide shall conform to the following specifications: Lead (as Pb), not more than 10 parts per million. Arsenic (as As), not more than 1 part per million. Antimony (as Sb), not more than 2 parts per million. Mercury (as Hg), not more than 1 part per million. Loss on ignition at 800 °C. (after drying for 3 hours at 105 °C.), not more than 0.5 percent. Water soluble substances, not more than 0.3 percent. Acid soluble substances, not more than 0.5 percent. TiO ₂ , not less than 99.0 percent after drying for 3 hours at 105 °C. Lead, arsenic, and antimony shall be determined in the solution obtained by boiling 10 grams of the titanium dioxide for 15 minutes in 50 milliliters of 0.5N hydrochloric acid.	x
TMP LAURYL DIMETHICONE	TMP LAURYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TOCOPHEREH-10	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEREH-12	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEREH-18	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEREH-5	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEREH-50	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEROL	TOCOPHERYL ACETATE	10191-41-0	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEROL NICOTINATE	TOCOPHERYL ACETATE	51898-34-1	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEROL, D-ALPHA-	TOCOPHERYL ACETATE	59-02-9	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHEROL, DL-ALPHA	TOCOPHERYL ACETATE	10191-41-0	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERSOLAN	TOCOPHERSOLAN	30999-06-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
TOCOPHERSOLAN	TOCOPHERYL ACETATE	30999-06-5	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL ACETATE	TOCOPHERYL ACETATE	58-95-7	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL DIMETHYLGLYCINATE HCl	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL ETHYL SUCCINATE ETHYLDIMONIUM ETHOSULFATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL FERULATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL GLUCOSIDE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL LINOLEATE	TOCOPHERYL LINOLEATE	36148-84-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
TOCOPHERYL LINOLEATE	TOCOPHERYL ACETATE	36148-84-2	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL LINOLEATE/ OLEATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL NICOTINATE	TOCOPHERYL NICOTINATE	16676-75-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TOCOPHERYL NICOTINATE	TOCOPHERYL ACETATE	16676-75-8	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL OLEATE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL PHOSPHATE	TOCOPHERYL ACETATE	425429-22-7	This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL PHOSPHATE	TOCOPHERYL PHOSPHATE	425429-22-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TOCOPHERYL POLYPEPTIDE	TOCOPHERYL ACETATE		This ingredient should not contain detectable levels of hydroquinone.	
TOCOPHERYL RETINOATE	TOCOPHERYL ACETATE	40516-49-2	This ingredient should not contain detectable levels of hydroquinone.	
TOCOQUINONE	TOCOPHERYL ACETATE	7559-04-8	This ingredient should not contain detectable levels of hydroquinone.	
TOCOTRIENOLS	TOCOTRIENOLS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TOLUALDEHYDE ISOMERS	o,m,pTolualdehydes and their mixtures	1334787	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.17% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.5% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.26% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 1.11% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
TOLUALDEHYDE ISOMERS	o,m,pTolualdehydes and their mixtures	1334787	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.085 % Category 2) 0.025 % Category 3) 0.51 % Category 4) 0.47 % Category 5A) 0.12 % Category 5B) 0.12 % Category 5C) 0.12 % Category 5D) 0.12 % Category 6) 0.28 % Category 7A) 0.96 % Category 7B) 0.96 % Category 8) 0.050 % Category 9) 0.92 % Category 10A) 3.3 % Category 10B) 3.3 % Category 11A) 1.8 % Category 11B) 1.8 % Category 12) No Restriction	
TOLUENE	toluene	108883	The European Commission restricts this ingredient to a maximum concentration of 25% in nail products. Required Warning: The European Commission requires the following warning text on the label/package of nail products: 'Keep out of reach of children'; 'To be used by adults only'	
TOLUENE	toluene	108883	The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: benzene	
TOLUENE-2,5-DIAMINE	TOLUENE2,5DIAMINE	95705	The European Commission restricts this ingredient to a maximum concentration of 4% (calculated as free base) applied to hair after mixing under oxidative conditions.	
TOLUENE-2,5-DIAMINE	TOLUENE2,5DIAMINE	95-70-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
TOLUENE-2,5-DIAMINE	TOLUENE-2,5-DIAMINE	95-70-5	Per COSING, after mixing under oxidative conditions the maximum concentration applied to hair or eyelashes must not exceed 2.0 % (cal-culated as free base) or 3.6 % (calculated as sulfate salt).	x
TOLUENEDIAMINE SULFATE, P-	TOLUENE2,5DIAMINE SULFATE	615509	The European Commission restricts this ingredient to a maximum concentration of 4% (calculated as free base) applied to hair after mixing under oxidative conditions.	
TOLUENEDIAMINE SULFATE, P-	TOLUENEDIAMINE SULFATE, P	615509	The European Commission restricts this ingredient to a maximum concentration of 4% (calculated as free base) applied to hair after mixing under oxidative conditions.	
TOLUENEDIAMINE SULFATE, P-	TOLUENE2,5DIAMINE SULFATE	615-50-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TOLUENEDIAMINE SULFATE, P-	TOLUENEDIAMINE SULFATE, P-	615-50-9	Per COSING, after mixing under oxidative conditions the maximum concentration applied to hair or eyelashes must not exceed 2.0 % (cal-culated as free base) or 3.6 % (calculated as sulfate salt).	x
TONALIDE	TONALIDE	1506021	The European Commission restricts this ingredient to a maximum concentration of 0.1% in nonoral leaveon products, 1% in hydroalcoholic products, 2.5% in fine fragrance, 0.5% in fragrance cream, and 0.2% in rinseoff products.	
TORREYA NUCIFERA SEED OIL	TORREYA NUCIFERA SEED OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TOSYLAMIDE/ FORMALDEHYDE RESIN	TOLUENESULFONAMIDE/FORMAL DEHYDE RESIN	25035-71-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 13%.	
TOSYLAMIDE/ FORMALDEHYDE RESIN	TOSYLAMIDE/ FORMALDEHYDE RESIN	25035-71-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
trans-2-HEXENAL	TRANS2HEXENAL	6728263	The European Commission restricts this ingredient to a maximum concentration of 0.002% in nonoral products.	
trans-2-HEXENAL	TRANS2HEXENAL	6728263	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.02% in mouthwashes, breath sprays, and toothpastes, 0% in intimate wipes, and baby wipes, 0% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
trans-2-HEXENAL	TRANS2HEXENAL	6728263	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0018 % Category 2) 0.00055 % Category 3) 0.011 % Category 4) 0.010 % Category 5A) 0.0026 % Category 5B) 0.0026 % Category 5C) 0.0026 % Category 5D) 0.00087 % Category 6) 0.0060 % Category 7A) 0.021 % Category 7B) 0.021 % Category 8) 0.00087 % Category 9) 0.020 % Category 10A) 0.020 % Category 10B) 0.072 % Category 11A) 0.00087 % Category 11B) 0.00087 % Category 12) No Restriction	
trans-CINNAMONITRILE	Cinnamyl nitrile	1885387	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.03% in lip products, 0.04% in deodorants/antiperspirants, 0.13% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.13% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.13% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.8% in mouthwashes, breath sprays, and toothpastes, 0.08% in intimate wipes, and baby wipes, 0.13% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.13% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
trans-CINNAMONITRILE	Cinnamyl nitrile	1885387	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.077 % Category 2) 0.023 % Category 3) 0.46 % Category 4) 0.43 % Category 5A) 0.11 % Category 5B) 0.11 % Category 5C) 0.11 % Category 5D) 0.11 % Category 6) 0.25 % Category 7A) 0.88 % Category 7B) 0.88 % Category 8) 0.045 % Category 9) 0.84 % Category 10A) 3.0 % Category 10B) 3.0 % Category 11A) 1.7 % Category 11B) 1.7 % Category 12) No Restriction	
trans-ISOEUGENOL	TRANSISOEUGENOL	5932683	Required Warning: The European Commission requires that the presence of this substance be indicated in the list of ingredients when its concentration exceeds 0.001% in leaveon products and 0.01% in rinseoff products.	
trans-ISOEUGENOL	Isoeugenol	5932683	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.019% Category 2) 0.0057% Category 3) 0.12% Category 4) 0.11% Category 5A) 0.027% Category 5B) 0.027% Category 5C) 0.027% Category 5D) 0.0090% Category 6) 0.063% Category 7A) 0.22% Category 7B) 0.22% Category 8) 0.0090% Category 9) 0.21% Category 10A) 0.21% Category 10B) 0.75% Category 11A) 0.0090% Category 11B) 0.0090% Category 12) No Restriction	
trans-ROSE KETONE-1	TRANSROSE KETONE1	24720090	The European Commission restricts this ingredient to a maximum concentration of 0.02% in nonoral products.	
trans-ROSE KETONE-1	Rose ketones	24720090	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
trans-ROSE KETONE-1	Rose ketones	24720090	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
trans-ROSE KETONE-2	TRANSROSE KETONE2	23726912	The European Commission restricts this ingredient to a maximum concentration of 0.02% in nonoral products.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
trans-ROSE KETONE-2	Rose ketones	23726912	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
trans-ROSE KETONE-2	Rose ketones	23726912	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
trans-ROSE KETONE-3	TRANSROSE KETONE3	71048823	The European Commission restricts this ingredient to a maximum concentration of 0.02% in nonoral products.	
trans-ROSE KETONE-3	Rose ketones	71048823	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
trans-ROSE KETONE-3	Rose ketones	71048823	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
trans-ROSE KETONE-5	transROSE KETONE5	39872576	The European Commission restricts this ingredient to a maximum concentration of 0.02%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
trans-ROSE KETONE-5	Rose ketones	39872576	The International Fragrance Association restricts this ingredient to a maximum concentration of 0% in lip products, 0% in deodorants/antiperspirants, 0.02% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.02% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.02% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.07% in mouthwashes, breath sprays, and toothpastes, 0.01% in intimate wipes, and baby wipes, 0.02% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.02% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
trans-ROSE KETONE-5	Rose ketones	39872576	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.0077% Category 2) 0.0023% Category 3) 0.046% Category 4) 0.043% Category 5A) 0.011% Category 5B) 0.011% Category 5C) 0.011% Category 5D) 0.011% Category 6) 0.025% Category 7A) 0.088% Category 7B) 0.088% Category 8) 0.0045% Category 9) 0.084% Category 10A) 0.30% Category 10B) 0.30% Category 11A) 0.17% Category 11B) 0.17% Category 12) No Restriction	
trans-TRIMETHYLUNDECADIENOL	2,6,10Trimethylundeca5,9dien1ol	58001880	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.21 % Category 2) 0.062 % Category 3) 1.2 % Category 4) 1.2 % Category 5A) 0.29 % Category 5B) 0.29 % Category 5C) 0.29 % Category 5D) 0.29 % Category 6) 0.68 % Category 7A) 2.4 % Category 7B) 2.4 % Category 8) 0.12 % Category 9) 2.3 % Category 10A) 8.1 % Category 10B) 8.1 % Category 11A) 4.5 % Category 11B) 4.5 % Category 12) No Restriction	
TREEMOSS CONCRETE	Treemoss Extracts	68648419	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.02% in lip products, 0.03% in deodorants/antiperspirants, 0.1% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.1% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.1% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 0.5% in mouthwashes, breath sprays, and toothpastes, 0.1% in intimate wipes, and baby wipes, 0.1% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.1% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
TREEMOSS CONCRETE	Treemoss Extracts	68648419	The International Fragrance Association restricts the dehydroabietic acid (DHA) concentration of this ingredient to a maximum of 0.8% in the extract, and the levels of atranol and chloroatranol should each be below 100ppm.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TREEMOSS CONCRETE	Treemoss Extracts	68648419	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.020% Category 2) 0.016% Category 3) 0.10% Category 4) 0.10% Category 5A) 0.076% Category 5B) 0.076% Category 5C) 0.076% Category 5D) 0.076% Category 6) 0.18% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.032% Category 9) 0.10% Category 10A) 0.10% Category 10B) 0.10% Category 11A) 0.10% Category 11B) 0.10% Category 12) No Restriction	
TREHALOSE	TREHALOSE	99-20-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRI-C14-15 ALKYL CITRATE	TRIC1415 ALKYL CITRATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products.	
TRIACETIN	Triacetin	102-76-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
TRIACONTANYL PVP	TRIACONTANYL PVP	136445-69-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIBEHENIN	TRIBEHENIN	18641-57-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
TRIBEHENIN PEG-20 ESTERS	Tribehenin Peg20 Esters	220207103	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIBUTYL CITRATE	TRIBUTYL CITRATE	77-94-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%.	
TRICAPRIN	TRICAPRIN	621-71-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.75%	
TRICAPRYLIN	TRICAPRYLIN	538-23-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 13%	
TRICETEARETH 4 PHOSPHATE	Triceteareth 4 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRICETETH-5 PHOSPHATE	Triceteth5 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRICLOCARBAN	Triclocarban	101202	The European Commission restricts this ingredient to a maximum concentration of 1.5% in rinseoff products (with the purity criteria of less than or equal to 1 ppm of both 3,3',4,4'Tetrachloroazobenzene and 3,3',4,4'Tetrachloroazoxybenzene). For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
TRICLOCARBAN	Trichlorocarbanilide	101-20-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in products meant to be applied to the mucosa.	
TRICLOCARBAN	Trichlorocarbanilide	101-20-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.3% in leaveon products (not applied to mucosa).	
TRICLOCARBAN	1(4Chlorophenyl)3(3,4dichlorophenyl)urea (6)	101202	(*) The European Commission restricts this ingredient to a maximum concentration of 0.20%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRICLOSAN	Triclosan	3380-34-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.3%.	
TRICLOSAN	Triclosan	3380345	Health Canada restricts this ingredient to a maximum concentration of 0.03% in mouthwash and 0.3% in other cosmetic products. Additionally, the following impurities are restricted to the following maximum concentrations: 0.1 ng/g of 2,3,7,8tetrachlorodibenzodioxin and 2,3,7,8tetrachlorodibenzofuran, 10 microgram/g of total other PCDD/PCDF impurities, with no individual impurity greater than 5 microgram/g. Required Warning: Health Canada requires the following text on the package/label of oral products: 'The product is not to be used by children under the age of 12'. For mouthwashes, the product package/label must also list: 'Avoid swallowing'.	
TRICLOSAN	TRICHLOROXYDIPHENYLETHERTRICLOSAN	3380-34-5	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1%.	
TRICLOSAN	5Chloro2(2,4dichlorophenoxy)phenol	3380345	(*) The European Commission restricts this ingredient to a maximum concentration of 0.3% in toothpastes, hand soaps, body soaps/shower gels, nonspray deodorants, face powders and blemish concealers, and nail products for cleaning the fingernails and toenails before the application of artificial nail systems, and 0.2% in mouthwashes.	
TRICLOSAN	5chloro2(2,4dichlorohydroxy) phenol	3380345	Product must not be inhalable. (designated as sensitizing asthagen by the Association of Occupational and Environmental Clinics)	
TRICLOSAN	TRICLOSAN	3380-34-5	Per COSING, the maximum concentration in RTU preparation is (a) 0.3% for toothpastes, hand soaps, body soaps/shower gels, deodorants (non-spray), face powders and blemish concealers, and nail products for cleaning the fingernails and toenails before the application of artificial nail systems (b) 0.2% for mouthwashes.	x
TRIDECETH-10	TRIDECETH10	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-10 PHOSPHATE	Trideceth6 Phosphate	9046019	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-10 PHOSPHATE	Trideceth3 Phosphate	9046019	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-10 PHOSPHATE	Trideceth10 Phosphate	9046019	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-11	TRIDECETH11	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIDECETH-12	TRIDECETH12	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-15	TRIDECETH15	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-15 CARBOXYLIC ACID	Trideceth15 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-15 TRIDECYL ETHER CARBOXYLIC ACID	Trideceth15 Tridecyl Ether Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-18	TRIDECETH18	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-19 CARBOXYLIC ACID	Trideceth19 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-2	TRIDECETH2	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-2 CARBOXAMIDE MEA	TRIDECETH2 CARBOXAMIDE MEA		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-2 CARBOXAMIDE MEA	TRIDECETH2 CARBOXAMIDE MEA		(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
TRIDECETH-20	TRIDECETH20	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-21	TRIDECETH21	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIDECETH-3	TRIDECETH3	4403127	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-3 CARBOXYLIC ACID	Trideceth3 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-3 PHOSPHATE	Trideceth3 Phosphate	9046019	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-4	TRIDECETH4	69011365	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-4 CARBOXYLIC ACID	Trideceth4 Carboxylic Acid	127174974	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-5	TRIDECETH5	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-50	TRIDECETH50	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-6	TRIDECETH6	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-6 PHOSPHATE	Trideceth6 Phosphate	9046019	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-7	TRIDECETH7	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIDECETH-7 CARBOXYLIC ACID	Trideceth7 Carboxylic Acid	56388966	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-8	TRIDECETH8	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-8 CARBOXYLIC ACID	Trideceth8 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH8	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH7	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH6	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH50	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH5	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH21	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH20	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIDECETH-9	TRIDECETH2	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH18	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH15	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH12	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH11	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	TRIDECETH10	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9	Trideceth9	24938918	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9 PG-AMODIMETHICONE	Trideceth9 PgAmodimethicone		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECETH-9 PG-AMODIMETHICONE	TRIDECETH-9 PG-AMODIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIDECETH-9/ PEG-5 OCTANOATE	Trideceth9/ Peg5 Octanoate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDECYL ISONONANOATE	TRIDECYL ISONONANOATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 9%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIDECYL SALICYLATE	TRIDECYL SALICYLATE	19666-16-1	The Cosmetic Ingredient Review restricts the use of this ingredient to products formulated to avoid increasing sun sensitivity or when directions for use include daily use of sun protection.	
TRIDECYL TRIMELLITATE	TRIDECYL TRIMELLITATE	70225-05-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TRIDECYLHEXAETHOXYLATE	Tridecylhexaethoxylate	930-09-6	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIDEMORPH	TRIDEMORPH	24602-86-6	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
TRIETHANOLAMINE	Triethanolamine	102716	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TRIETHANOLAMINE	Triethanolamine	102716	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5% in leaveon products. Additionally, it cannot be used in products where N-nitroso compounds may be formed.	
TRIETHANOLAMINE	Triethanolamine	102716	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
TRIETHANOLAMINE	Triethanolamine	102716	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TRIETHANOLAMINE	Tea	102-71-6	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TRIETHANOLAMINE LAURYL SULFATE	TRIETHANOLAMINE LAURYL SULFATE	139968	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TRIETHANOLAMINE LAURYL SULFATE	TEALAURYL SULFATE	139-96-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10.5%.	
TRIETHANOLAMINE POLYOXYETHYLENE ALKYLPHENYLETHER PHOSPHATE	TRIETHANOLAMINE POLYOXYETHYLENE ALKYLPHENYLETHER PHOSPHATE		The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TRITHOXYPAPRYLSILANE	Triethoxycaprylsilane	2943751	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 2.6%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL DIMETHICONE	TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL HEXYL DIMETHICONE	TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL HEXYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIETHYL CITRATE	TRIETHYL CITRATE	77-93-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 6%.	
TRIETHYLENE GLYCOL	Triethylene glycol	112276	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.2%.	
TRIETHYLHEXYL TRIMELLITATE	TRIETHYLHEXYL TRIMELLITATE	3319-31-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TRIFLUOROMETHYL C1-4 ALKYL DIMETHICONE	TRIFLUOROMETHYL C1-4 ALKYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIFLUOROPROPYL DIMETHICONE/PEG-10 CROSSPOLYMER	Trifluoropropyl Dimethicone/peg10 Crosspolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIFLUOROPROPYL DIMETHICONE/PEG-10 CROSSPOLYMER	TRIFLUOROPROPYL DIMETHICONE/PEG-10 CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIFLUOROPROPYL DIMETHICONE/TRIFLUOROPROPYL DIVINYLDIMETHICONE CROSSPOLYMER	TRIFLUOROPROPYL DIMETHICONE/TRIFLUOROPROPYL DIVINYLDIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIFLUOROPROPYL DIMETHICONE/VINYL TRIFLUOROPROPYL DIMETHICONE/SILSESQUIOXANE CROSSPOLYMER	TRIFLUOROPROPYL DIMETHICONE/VINYL TRIFLUOROPROPYL DIMETHICONE/SILSESQUIOXANE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIHEPTANOIN	TRIHEPTANOIN	620-67-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 5%	
TRIHYROXYSTEARIN	TRIHYROXYSTEARIN	139-44-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 15%.	
TRIISOCETYL CITRATE	TRIISOCETYL CITRATE		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3% in leaveon products.	
TRIISODECYL TRIMELLITATE	TRIISODECYL TRIMELLITATE	36631-30-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TRIISONONANOIN	TRIISONONANOIN	56554-53-1	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 25%	
TRIISOPROPANOLAMINE	TRIISOPROPANOLAMINE	122203	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIISOPROPANOLAMINE	TRIISOPROPANOLAMINE	122203	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form (do not contain nitrosating agents).	
TRIISOSTEARIN	TRIISOSTEARIN	26942-95-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 45%	
TRIISOSTEARIN PEG-6 ESTERS	Triisostearin Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIISOSTEARYL CITRATE	TRIISOSTEARYL CITRATE	113431-54-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRILAURETH-4 PHOSPHATE	Trilaureth4 Phosphate	31800905	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRILAURETH-9 CITRATE	Trilaureth9 Citrate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRILAURIN	TRILAURIN	538-24-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 46%	
TRILAURYL PHOSPHATE	TRILAURYL PHOSPHATE	682-49-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TRILAURYLAMINE	TRILAURYLAMINE	102874	The European Commission restricts this ingredient to a maximum concentration of 2.5% in leaveon products. Additionally, this substance cannot be used with nitrosating systems, the minimum purity of the ingredient should be 99%, it cannot have a secondary amine content of more than 0.5% (applies to raw materials), it cannot have a nitrosamine content of more than 50 microgram/kg, and it should be kept in nitritefree containers.	
TRILINOLEIC ACID	TRILINOLEIC ACID	7049-66-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
TRILINOLEIN	TRILINOLEIN	537-40-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.017%	
TRILINOLENIN	TRILINOLENIN	14465-68-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIMELLITIC ANHYDRIDE	Trimellitic Anhydride	552307	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
TRIMELLITIC ANHYDRIDE	Trimellitic Anhydride	552307	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TRIMETHICONE	TRIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIMETHOXYCAPRYLYLSILANE	Trimethoxycaprylylsilane	3069407	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.77%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIMETHYL PENTANYL DIISOBUTYRATE	TRIMETHYL PENTANYL DIISOBUTYRATE	6846-50-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIMETHYLATED SILICA	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TRIMETHYLATED SILICA/ DIMETHICONE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TRIMETHYLATED SILICA/ DIMETHICONE	TRIMETHYLATED SILICA/ DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIMETHYLOLETHANE-BENZOIC ACID-PHTHALIC ANHYDRIDE RESIN	TrimethylolethaneBenzoic AcidPhthalic Anhydride Resin		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIMETHYLSILOXYAMODIMETHICO NE	TRIMETHYLSILOXYAMODIMETHICO NE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIMETHYLSILOXYPHENYL DIMETHICONE	TRIMETHYLSILOXYPHENYL DIMETHICONE	73138-88-2	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIMETHYLSILOXYPOLYSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TRIMETHYLSILOXYSILICATE	Trimethylsiloxysilicate	56275-01-5	The Cosmetic Ingredient Review has determined this ingredient to be safe as used when formulated and delivered in the final product not to be irritating and sensitizing to the respiratory tract up to a concentration of 30%.	
TRIMETHYLSILOXYSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIMETHYLSILOXYSILICATE ACRYLATES/ CARBAMATE COPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TRIMETHYLSILOXYSILICATE/DIME THICONE CROSSPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TRIMETHYLSILOXYSILICATE/DIME THICONE CROSSPOLYMER	TRIMETHYLSILOXYSILICATE/DIME THICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIMETHYLSILOXYSILICATE/DIME THICONE CROSSPOLYMER	TRIMETHYLSILOXYSILICATE/DIME THICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIMETHYLSILOXYSILICATE/DIME THICONOL CROSSPOLYMER	TRIMETHYLSILOXYSILICATE/DIME THICONOL CROSSPOLYMER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
TRIMETHYLSILOXYSILICATE/DIME THICONOL CROSSPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TRIMETHYLSILYLAMODIMETHICONE	TRIMETHYLSILYLAMODIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIMETHYLUNDECADIENOL	2,6,10Trimethylundeca5,9dien1ol	24048144	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.21 % Category 2) 0.062 % Category 3) 1.2 % Category 4) 1.2 % Category 5A) 0.29 % Category 5B) 0.29 % Category 5C) 0.29 % Category 5D) 0.29 % Category 6) 0.68 % Category 7A) 2.4 % Category 7B) 2.4 % Category 8) 0.12 % Category 9) 2.3 % Category 10A) 8.1 % Category 10B) 8.1 % Category 11A) 4.5 % Category 11B) 4.5 % Category 12) No Restriction	
TRIMYRISTIN	TRIMYRISTIN	555-45-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 8%	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRIOCTYLDODECYL BORATE	TRIOCTYLDODECYL BORATE		The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	
TRIOCTYLDODECYL CITRATE	TRIOCTYLDODECYL CITRATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIOLEIN	TRIOLEIN	122-32-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.14%	
TRIOLEIN PEG-6 ESTERS	Triolein Peg6 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIOLETH-8 PHOSPHATE	Trioleth8 Phosphate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
TRIOLEYL PHOSPHATE	TRIOLEYL PHOSPHATE	3305-68-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TRIPALMITIN	TRIPALMITIN	555-44-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 19%	
TRIPLEPTIDE-1	Tripeptide1		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of up to 0.001%	
TRIPHENYL PHOSPHATE	TRIPHENYL PHOSPHATE	115-86-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRIPHENYL TRIMETHICONE	TRIPHENYL TRIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRIPROPYLENE GLYCOL	TRIPROPYLENE GLYCOL	24800-44-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TRIS(TETRAMETHYLHYDROXYPIPE RIDINOL) CITRATE	TRIS(TETRAMETHYLHYDROXYPIPE RIDINOL) CITRATE	220410-74-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
TRISILOXANE	TRISILOXANE	107-51-7	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
TRISODIUM EDTA	TRISODIUM EDTA	150-38-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TRISODIUM GLYCYRRHIZATE	TRISODIUM GLYCYRRHIZATE		The Cosmetic Ingredient Review has identified the following potential contaminants/impurities in this ingredient: pesticides/PCBs, toxic metals, and heavy metals.	
TRISODIUM HEDTA	TRISODIUM HEDTA	139-89-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TRISODIUM HEXAFLUOROALUMINATE	Aluminum Compounds	13775-53-6	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
TRISODIUM INOSITOL TRIPHOSPHATE	TRISODIUM INOSITOL TRIPHOSPHATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRISTEARYL PHOSPHATE	TRISTEARYL PHOSPHATE	4889-45-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
TRITICUM VULGARE (WHEAT) BRAN	TRITICUM VULGARE (WHEAT) BRAN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) BRAN EXTRACT	TRITICUM VULGARE (WHEAT) BRAN EXTRACT	84012-44-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) BRAN LIPIDS	TRITICUM VULGARE (WHEAT) BRAN LIPIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) FLOUR EXTRACT	TRITICUM VULGARE (WHEAT) FLOUR EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) FLOUR LIPIDS	TRITICUM VULGARE (WHEAT) FLOUR LIPIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) GERM	TRITICUM VULGARE (WHEAT) GERM		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) GERM EXTRACT	TRITICUM VULGARE (WHEAT) GERM EXTRACT	84012-44-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) GERM OIL	TRITICUM VULGARE (WHEAT) GERM OIL	8006-95-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 28%	
TRITICUM VULGARE (WHEAT) GERM OIL	TRITICUM VULGARE (WHEAT) GERM OIL	8006-95-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) GERM OIL UNSAPONIFIABLES	Triticum Vulgare (Wheat) Germ Oil Unsaponifiables		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.2%	
TRITICUM VULGARE (WHEAT) GERM POWDER	TRITICUM VULGARE (WHEAT) GERM POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) GLUTEN	TRITICUM VULGARE (WHEAT) GLUTEN	8002-80-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TRITICUM VULGARE (WHEAT) GLUTEN	WHEAT (TRITICUM VULGARE) GLUTEN	8002-80-0	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TRITICUM VULGARE (WHEAT) GLUTEN	TRITICUM VULGARE (WHEAT) GLUTEN	8002-80-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) GLUTEN EXTRACT	TRITICUM VULGARE (WHEAT) GLUTEN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) KERNEL FLOUR	WHEAT (TRITICUM VULGARE) FLOUR	130498-22-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	

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TRITICUM VULGARE (WHEAT) KERNEL FLOUR	TRITICUM VULGARE (WHEAT) KERNEL FLOUR	130498-22-5	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 1%.	
TRITICUM VULGARE (WHEAT) KERNEL FLOUR	TRITICUM VULGARE (WHEAT) KERNEL FLOUR	130498-22-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) SEED EXTRACT	TRITICUM VULGARE (WHEAT) SEED EXTRACT	84012-44-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TRITICUM VULGARE (WHEAT) STARCH	TRITICUM VULGARE (WHEAT) STARCH	9005-25-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TROMETHAMINE	Tromethamine	77861	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
TROMETHAMINE MAGNESIUM ALUMINUM SILICATE	Aluminum Compounds	66456-45-9	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TROMETHAMINE MAGNESIUM ALUMINUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
TRYPSIN	trypsin	9002077	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TRYPTOPHAN	TRYPTOPHAN	54-12-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
TUNGSTEN CARBIDE	Tungsten Carbide	12070121	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
TUNGSTEN CARBIDE	Tungsten Carbide	12070121	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TURPENTINE OIL	TURPENTINE OIL	8006642	The European Commission restricts this ingredient's peroxide content to less than 10 mmoles/L (this limit applies to the substance and not the finished cosmetic product).	
TURPENTINE OIL	Turpentine	8006642	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TYLOSIN, TARTRATE	Tylosin Tartrate	1405545	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
TYROSINE	TYROSINE	60-18-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
UBIQUINONE	Ubidecarenone	303-98-0	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in products meant to be applied to the mucosa.	
UBIQUINONE	Ubidecarenone	303-98-0	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.03% in products not meant to be applied to the mucosa.	
ULTRAMARINES	Ultramarines.	1317-97-1	The U.S. Food and Drug Administration restricts the lead, arsenic, and mercury content of this ingredient to maximum concentrations of 20 ppm, 3 ppm, and 1 ppm, respectively.	

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ULTRAMARINES	ULTRAMARINES	1317-97-1	Per the U.S. FDA., the ultramarines shall conform to the following specifications and shall be free from impurities other than those named, to the extent that such other impurities may be avoided by good manufacturing practice. Lead (as Pb), not more than 20 parts per million. Arsenic (as As), not more than 3 parts per million. Mercury (as Hg), not more than 1 part per million.	x
UNDARIA PINNATIFIDA CELL CULTURE EXTRACT	UNDARIA PINNATIFIDA CELL CULTURE EXTRACT		Based on a Cosmetic Ingredient Review safety assessment of brown algae-derived ingredients, EWG does not allow this substance to contain detectable levels of cadmium, lead, mercury, copper, zinc, arsenic, nickel, silver, or iodine.	x
UNDARIA PINNATIFIDA EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
UNDARIA PINNATIFIDA EXTRACT	UNDARIA PINNATIFIDA EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
UNDARIA PINNATIFIDA POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
UNDARIA PINNATIFIDA POWDER	UNDARIA PINNATIFIDA POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
UNDARIA PINNATIFIDA ROOT POWDER	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
UNDARIA PINNATIFIDA ROOT POWDER	UNDARIA PINNATIFIDA ROOT POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
UNDECANOIC ACID	UNDECANOIC ACID	112-37-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x
UNDECETH-11	UNDECETH11		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECETH-3	UNDECETH3		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECETH-5	UNDECETH5	34398011	The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	

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UNDECETH-5 CARBOXYLIC ACID	Undeceth5 Carboxylic Acid		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECETH-7	UNDECETH7		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECETH-8	UNDECETH8		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECETH-9	UNDECETH9		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECYLCRYLENE DIMETHICONE	UNDECYLCRYLENE DIMETHICONE	948847-35-6	According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
UNDECYLENAMIDE DEA	UNDECYLENAMIDE DEA	25377644	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
UNDECYLENAMIDE DEA	UNDECYLENAMIDE DEA	25377-64-4	The Cosmetic Ingredient Review restricts this ingredient to cosmetics products in which Nnitroso compounds cannot form (do not contain nitrosating agents).	
UNDECYLENAMIDE MEA	UNDECYLENICACIDMONOETHANO LAMIDE	20545-92-0	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in leaveon products.	
UNDECYLENAMIDE MEA	UNDECYLENAMIDE MEA	20545-92-0	(*) The Cosmetic Ingredient Review does not allow the use of this ingredient in cosmetic products where Nnitroso compounds may be formed.	
UNDECYLENAMIDOPROPYL BETAINE	UNDECYLENAMIDOPROPYL BETAINE		The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
UNDECYLENAMIDOPROPYL PEG-2 DIMONIUM UNDECYLENATE	Undecylenamidopropyl Peg2 Dimonium Undecylenate		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECYLENIC ACID	UNDECYLENIC ACID	112-38-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating and non-sensitizing.	x

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UNDECYLENOYL GLYCINE	undecylenoyl glycine	54301-26-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.3%	
UNDECYLENOYL INULIN	UNDECYLENOYL INULIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
UNDECYLENOYL PEG 5 PARABEN	Undecylenoyl Peg 5 Paraben		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
UNDECYLENOYL PHENYLALANINE	undecylenoyl phenylalanine	175357-18-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
UNDECYLENOYL WHEAT AMINO ACIDS	UNDECYLENOYL WHEAT AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
UNDECYLENOYL XANTHAN GUM	UNDECYLENOYL XANTHAN GUM		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
UNSPECIFIED MINERALS	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
UREA	Urea	57136	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
UREA	Urea	57136	Health Canada restricts this ingredient to a maximum concentration of 10% (cosmetics intended to be diluted in bath water may contain levels exceeding 10% urea).	
VA/ CROTONATES COPOLYMER	VA/crotonates copolymer	25609-89-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%.	
VA/ CROTONATES COPOLYMER	VINYL ACETATE/CROTONIC ACID COPOLYMER	25609-89-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%.	
VA/ CROTONATES COPOLYMER	VA/CA (VINYL ACETATE/CROTONIC ACID) COPOLYMER	25609-89-6	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 11%.	
VA/ CROTONATES COPOLYMER	VA/ CROTONATES COPOLYMER	25609-89-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VA/ VINYL BUTYL BENZOATE/ CROTONATES COPOLYMER	Benzoate		The Japanese Ministry of Health, Labour and Welfare restricts total benzoate concentration to a maximum of 1% in the finished product.	
VA/BUTYL MALEATE/ISOBORNYL ACRYLATE COPOLYMER	VA/BUTYL MALEATE/ISOBORNYL ACRYLATE COPOLYMER		These substances must not be polymerized in benzene and the summed concentration of residual monomers (acrylic acid, methacrylic acid and their simple esters) are restricted to 100 ppm in this substance based on recommendations by the CIR panel that manufacturers minimize residual monomer content in in Acrylates Copolymers. Additionally, the CIR panel concluded these substances are safe as used when formulated to be non-irritating.	x
VA/CROTONIC ACID/PEG-20M COPOLYMER	Va/crotonic Acid/peg20m Copolymer		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
VACCINIUM MACROCARPON (CRANBERRY) SEED OIL	VACCINIUM MACROCARPON (CRANBERRY) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	
VACCINIUM MACROCARPON (CRANBERRY) SEED OIL	VACCINIUM MACROCARPON (CRANBERRY) SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 2%	
VACCINIUM MYRTILLUS (BILBERRY) SEED OIL	VACCINIUM MYRTILLUS SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
VACCINIUM MYRTILLUS (BILBERRY) SEED OIL	VACCINIUM MYRTILLUS SEED OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 0.1%	
VACCINIUM VITIS-IDAEA SEED OIL	VACCINIUM VITIS-IDAEA SEED OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VALERIC ACID, 4-AMINO-5-(1,3-DIOXO-2-ISOINDOLINYL)-5-OXO-	VALERIC ACID, 4-AMINO-5-(1,3-DIOXO-2-ISOINDOLINYL)-5-OXO-	102584-90-7	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen	x
VALINE	VALINE	72-18-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VALINE, 3-MERCAPTO-, D-	Penicillamine	52675	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
VALINE, 3-MERCAPTO-, DL-	Penicillamine	52675	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
VANCOMYCIN	Vancomycin	1404906	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
VANILLA PLANIFOLIA (VANILLA) FRUIT EXTRACT	VANILLA PLANIFOLIA (VANILLA) FRUIT EXTRACT	84650635	The Cosmetic Ingredient Review has determined that this ingredient is safe as used when formulated to be nonsensitizing up to 0.33%.	
VANILLA PLANIFOLIA (VANILLA) FRUIT EXTRACT	VANILLA PLANIFOLIA (VANILLA) FRUIT EXTRACT	84650-63-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
VANILLA PLANIFOLIA (VANILLA) OIL	VANILLA PLANIFOLIA (VANILLA) OIL		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
VANILLA PLANIFOLIA SEED	VANILLA PLANIFOLIA SEED		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
VANILLA PLANIFOLIA SEED POWDER	VANILLA PLANIFOLIA SEED POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
VANILLA TAHITENSIS FRUIT EXTRACT	VANILLA TAHITENSIS FRUIT EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-sensitizing.	x
Vat Red 1 (Uncertified D&C Red No. 30)	Color additives subject to batch certification	2379-74-0	Color additives listed in Title 21 of the Code of Federal Regulations, Part 74, Subpart C must be batch certified by the FDA and conform to FDA nomenclature.	
Vat Red 1 (Uncertified D&C Red No. 30)	D&C Red No. 30	2379-74-0	Based on a European Commission restriction/prohibition in hair dye products and the exemption from FDA batch certification for hair dyes in the US, EWG does not allow this ingredient in hair dyes.	
Vat Red 1 (Uncertified D&C Red No. 30)	Vat Red 1 (Uncertified D&C Red No. 30)	2379-74-0	This substance is not allowed for use in products used in the eye area, as defined by the U.S. FDA.	x
VEGETABLE AMINO ACIDS	VEGETABLE AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VEGETABLE FATTY ACID	VEGETABLE (OLUS) OIL	68956-68-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to 31%	
VEGETABLE GLYCERIN	Glycerin	56815	Health Canada requires manufacturers of oral and leaveon products containing glycerin to ensure the raw material used is within the specifications of an accepted pharmacopoeia with respect to diethylene glycol (DEG) impurities.	
VEGETABLE OIL	VEGETABLE OIL	67746-08-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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VERBENA (LIPPIA CITRIODORA) OIL	Verbena absolute (Lippia citriodora Kunth.)	8024122	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.05% in lip products, 0.06% in deodorants/antiperspirants, 0.2% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 0.2% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.2% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.2% in mouthwashes, breath sprays, and toothpastes, 0.12% in intimate wipes, and baby wipes, 0.2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 0.2% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
VERBENA (LIPPIA CITRIODORA) OIL	VERBENA (LIPPIA CITRIODORA) OIL	8024122	The European Union and Canada restricts the use of methyl eugenol, a component of this ingredient, so that the highest concentration of methyl eugenol in finished products does not exceed 0.01% in fine fragrance, 0.004 % in eau de toilette, 0.002 % in a fragrance cream, 0.0002 % in other leaveon products and in oral hygiene products, and 0.001% in rinseoff products.	
VERBENA (LIPPIA CITRIODORA) OIL	VERBENA (LIPPIA CITRIODORA) OIL	8024122	The International Fragrance Association restricts methyl eugenol to the following concentration limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.00058% Category 2) 0.0023% Category 3) 0.00029% Category 4) 0.016% Category 5A) 0.0020% Category 5B) 0.00058% Category 5C) 0.00058% Category 5D) 0.00019% Category 6) 0.0014% Category 7A) 0.00058% Category 7B) 0.00058% Category 8) 0.00019% Category 9) 0.00087% Category 10A) 0.00087% Category 10B) 0.0032% Category 11A) 0.00019% Category 11B) 0.00019% Category 12) 0.97%	
VERBENA (LIPPIA CITRIODORA) OIL	Lippia citriodora absolute	8024122	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.12% Category 2) 0.037% Category 3) 0.74% Category 4) 0.69% Category 5A) 0.17% Category 5B) 0.17% Category 5C) 0.17% Category 5D) 0.17% Category 6) 0.40% Category 7A) 1.4% Category 7B) 1.4% Category 8) 0.072% Category 9) 1.3% Category 10A) 4.8% Category 10B) 4.8% Category 11A) 2.7% Category 11B) 2.7% Category 12) No Restriction	
VETIVERIA ZIZANIOIDES ROOT EXTRACT ACETYLATED	Acetylated Vetiver oil	84082848	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.07% in lip products, 0.08% in deodorants/antiperspirants, 0.35% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.04% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.55% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.67% in mouthwashes, breath sprays, and toothpastes, 0.17% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
VETIVERIA ZIZANIOIDES ROOT EXTRACT ACETYLATED	Acetylated Vetiver oil	84082848	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.050% Category 2) 0.050% Category 3) 0.050% Category 4) 0.90% Category 5A) 0.10% Category 5B) 0.10% Category 5C) 0.10% Category 5D) 0.033% Category 6) 0.098% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.033% Category 9) 0.20% Category 10A) 0.20% Category 10B) 3.8% Category 11A) 0.033% Category 11B) 0.033% Category 12) No Restriction	
Vetiverol acetate, distilled	Acetylated Vetiver oil	73246976	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.07% in lip products, 0.08% in deodorants/antiperspirants, 0.35% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.04% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.55% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.67% in mouthwashes, breath sprays, and toothpastes, 0.17% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
Vetiverol acetate, distilled	Acetylated Vetiver oil	73246976	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.050% Category 2) 0.050% Category 3) 0.050% Category 4) 0.90% Category 5A) 0.10% Category 5B) 0.10% Category 5C) 0.10% Category 5D) 0.033% Category 6) 0.098% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.033% Category 9) 0.20% Category 10A) 0.20% Category 10B) 3.8% Category 11A) 0.033% Category 11B) 0.033% Category 12) No Restriction	
VETIVERYL ACETATE	Acetylated Vetiver oil	62563808	The International Fragrance Association restricts this ingredient to a maximum concentration of 0.07% in lip products, 0.08% in deodorants/antiperspirants, 0.35% in hydroalcoholic products applied to recently shaved skin, men's facial creams and balms, eye products, and baby creams, lotions and oils, 1.04% in hydroalcoholic products applied to unshaved skin (e.g. perfume), body sprays, hair styling aids and sprays, body creams, oils and lotions, and foot care products, 0.55% in women's facial creams and makeup, hand creams, facial masks, baby powder, wipes, hand sanitizers, and dry shampoos, 1.67% in mouthwashes, breath sprays, and toothpastes, 0.17% in intimate wipes, and baby wipes, 2% in makeup removers, nonspray hair styling aids, nail products, powders, and hair dyes, and 5% in bath products (bar and liquid soap, bath gels, body washes, depilatories, facial cleansers, shampoos, conditioners, etc.).	
VETIVERYL ACETATE	Acetylated Vetiver oil	62563808	restriction limits in the finished product (using the IFRA 49th Amendment Categories): Category 1) 0.050% Category 2) 0.050% Category 3) 0.050% Category 4) 0.90% Category 5A) 0.10% Category 5B) 0.10% Category 5C) 0.10% Category 5D) 0.033% Category 6) 0.098% Category 7A) 0.10% Category 7B) 0.10% Category 8) 0.033% Category 9) 0.20% Category 10A) 0.20% Category 10B) 3.8% Category 11A) 0.033% Category 11B) 0.033% Category 12) No Restriction	
VINYL CAPROLACTAM/ PVP/ DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER	VINYL CAPROLACTAM/ PVP/ DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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VINYL CAPROLACTAM/ PVP/ DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER	VINYL CAPROLACTAM/ PVP/ DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VINYL DIMETHICONE	VINYL DIMETHICONE		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
VINYL DIMETHICONE	VINYL DIMETHICONE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VINYL DIMETHICONE/ METHICONE SILSESQUIOXANE CROSSPOLYMER	VINYL DIMETHICONE/ METHICONE SILSESQUIOXANE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
VINYL DIMETHICONE/ METHICONE SILSESQUIOXANE CROSSPOLYMER	VINYL DIMETHICONE/ METHICONE SILSESQUIOXANE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER	VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER	VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER	VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VINYL DIMETHYL/TRIMETHYLSILOXYSILICATE STEARYL DIMETHICONE CROSSPOLYMER	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
VINYL DIMETHYL/TRIMETHYLSILOXYSILICATE STEARYL DIMETHICONE CROSSPOLYMER	VINYL DIMETHYL/TRIMETHYLSILOXYSILICATE STEARYL DIMETHICONE CROSSPOLYMER		According to the Cosmetic Ingredient Review, cyclic siloxanes, which are banned or restricted ingredients, can contaminate linear siloxanes, therefore the total concentration of D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) must not exceed 0.01% or 100ppm in the final product.	x
VINYL DIMETHYL/TRIMETHYLSILOXYSILICATE STEARYL DIMETHICONE CROSSPOLYMER	VINYL DIMETHYL/TRIMETHYLSILOXYSILICATE STEARYL DIMETHICONE CROSSPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VIRACEA	Benzalkonium Chloride	8001545	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1% as the free active ingredient.	
VIRACEA	BENZALKONIUMCHLORIDE	8001545	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	

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VIRACEA	BENZALKONIUMCHLORIDE	61789717	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
VIRACEA	BENZALKONIUMCHLORIDE	68391015	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
VIRACEA	BENZALKONIUMCHLORIDE	68424851	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
VIRACEA	BENZALKONIUMCHLORIDE	85409229	Health Canada restricts this ingredient to a maximum concentration of 0.1% as a preservative (i.e. benzalkonium chloride with chain lengths less than or equal to 14 C) in all products and 3% as a conditioning agent (i.e. benzalkonium chloride with chain lengths greater than or equal to 16 C) in rinseoff products. Required Warning: Health Canada requires the following on the product label/package in all products containing more than 0.1% benzalkonium chloride: 'Avoid contact with eyes.'	
VIRACEA	BENZALKONIUMCHLORIDE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in products meant to be applied to the mucosa.	
VIRACEA	BENZALKONIUMCHLORIDE		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in leaveon products (not applied to mucosa).	
VITALLIUM	Chromium Compounds	12629-02-6	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
VITAMIN B1	Thiamine	59438	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
VITAMIN B3	VITAMIN B3	79-83-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITAMIN D	Ergocalciferol	50146	Health Canada restricts the average daily absorption of this ingredient to a maximum of 25 micrograms per day.	
VITAMIN D2	Ergocalciferol	50146	Health Canada restricts the average daily absorption of this ingredient to a maximum of 25 micrograms per day.	
VITAMIN D3	Cholecalciferol	67970	Health Canada restricts the average daily absorption of this ingredient to a maximum of 25 micrograms per day.	
VITAMIN E SUCCINATE	TOCOPHEROL	4345-03-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 5%.	

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VITAMIN E SUCCINATE	TOCOPHERYL ACETATE	4345-03-3	This ingredient should not contain detectable levels of hydroquinone.	
VITIS VINIFERA (GRAPE)	VITIS VINIFERA (GRAPE)		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) FLOWER EXTRACT	VITIS VINIFERA (GRAPE) FLOWER EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) FRUIT EXTRACT	VITIS VINIFERA (GRAPE) FRUIT EXTRACT	84929-27-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) FRUIT POWDER	VITIS VINIFERA (GRAPE) FRUIT POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) FRUIT WATER	VITIS VINIFERA (GRAPE) FRUIT WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) JUICE	VITIS VINIFERA (GRAPE) JUICE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) JUICE EXTRACT	VITIS VINIFERA (GRAPE) JUICE EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) LEAF EXTRACT	VITIS VINIFERA (GRAPE) LEAF EXTRACT	84929-27-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) LEAF OIL	VITIS VINIFERA (GRAPE) LEAF OIL	8016-21-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) LEAF WATER	VITIS VINIFERA (GRAPE) LEAF WATER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) LEAF WAX	VITIS VINIFERA (GRAPE) LEAF WAX		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) ROOT EXTRACT	VITIS VINIFERA (GRAPE) ROOT EXTRACT	84929-27-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) SEED	VITIS VINIFERA (GRAPE) SEED		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) SEED EXTRACT	VITIS VINIFERA (GRAPE) SEED EXTRACT	84929-27-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) SEED POWDER	VITIS VINIFERA (GRAPE) SEED POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) SKIN EXTRACT	VITIS VINIFERA (GRAPE) SKIN EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) SKIN POWDER	VITIS VINIFERA (GRAPE) SKIN POWDER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) VINE EXTRACT	VITIS VINIFERA (GRAPE) VINE EXTRACT		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VITIS VINIFERA (GRAPE) VINE SAP	VITIS VINIFERA (GRAPE) VINE SAP		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VOLCANIC ROCK	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
VP/ ACRYLATES/ LAURYL METHACRYLATE COPOLYMER	VP/ ACRYLATES/ LAURYL METHACRYLATE COPOLYMER	83120-95-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VP/ DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	VP/ DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	30581-59-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VP/ DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	VP/ DIMETHYLAMINOETHYLMETHACRYLATE COPOLYMER	30581-59-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

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VP/ DMAPA ACRYLATES COPOLYMER	VP/ DMAPA ACRYLATES COPOLYMER	175893-71-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VP/ EICOSENE COPOLYMER	VP/ EICOSENE COPOLYMER	77035-98-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VP/ HEXADECENE COPOLYMER	VP/ HEXADECENE COPOLYMER	32440-50-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
VP/VA COPOLYMER	VP/VA COPOLYMER	25086-89-9	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 12%.	
VP/VINYL CAPROLACTAM/DMAPA ACRYLATES COPOLYMER	VP/VINYL CAPROLACTAM/DMAPA ACRYLATES COPOLYMER		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
WELAN GUM	WELAN GUM	96949-22-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
WHEAT AMINO ACIDS	WHEAT AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
WHEAT GERM GLYCERIDES	WHEAT GERM GLYCERIDES	68990-07-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
WHEAT GERM OIL PEG-40 BUTYLOCTANOL ESTERS	Wheat Germ Oil Peg40 Butyloctanol Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
WHEAT GERM OIL PEG-40 BUTYLOCTANOL ESTERS	WHEAT GERM OIL PEG-40 BUTYLOCTANOL ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
WHEAT GERM OIL PEG-8 ESTERS	Wheat Germ Oil Peg8 Esters		The U.S. Food & Drug Administration has identified 1,4dioxane as a potential impurity in this ingredient and recommends that manufacturers utilize vacuum stripping at the end of the polymerization process. Based on this finding, the concentration of 1,4 dioxane cannot exceed 1 ppm in the final product.	
WHEAT GERM OIL PEG-8 ESTERS	WHEAT GERM OIL PEG-8 ESTERS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
WHEAT GERM PROTEIN	WHEAT GERM PROTEIN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
WHEAT GERMAMIDE DEA	Wheat germamide DEA	124046395	The European Commission restricts the usage and purity of this ingredient: the maximum secondary amine content cannot exceed 0.5% (applies to raw materials); the ingredient cannot be used with nitrosating systems; the minimum purity should be at least 99%; the maximum nitrosamine content cannot exceed 50 microgram/kg; and the product must be kept in nitritefree containers	
WHEAT GERMAMIDOPROPYL BETAINE	wheat germamidopropyl betaine	133934095	The concentrations of DMAPA and amidoamine in this ingredient must not exceed 0.01% and 0.5% respectively. Additionally, this ingredient must be formulated to be nonsensitizing, as determined by a quantitative risk assessment (QRA) as outlined in the Final Report of the Cosmetic Ingredient Review Expert Panel on the Safety Assessment of Cocamidopropyl betaine (CAPB).	
WHEAT GERMAMIDOPROPYL DIMETHYLAMINE	Wheat germamidopropyl dimethylamine		This ingredient cannot be used in leaveon products and must not exceed 0.5% in rinseoff products. Additionally, this ingredient should not contain DMAPA at concentrations greater than 0.01%.	
WHEY PROTEIN	WHEY PROTEIN	84082-51-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
WHITE CLAY POWDER	CLAYS AND MINERALS		Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
WHITE PETROLATUM	WHITE PETROLATUM	8009-03-8	This ingredient is restricted due to its potential to bioaccumulate in human tissues. Based on European cosmetics legislation, European Pharmacopeia and recommendations from Cosmetics Europe and German Federal Institute for Risk Assessment, this ingredient must be highly refined including documentation of refining process and noncarcinogenic source material with DMSO extractives below 3% and PAH levels must be below 10 ppb. High viscosity mineral oils must have an average molecular mass of at least 500 Daltons, a viscosity value greater than 11 centistokes and no more than 5% of hydrocarbons with a chain length less than C28 may be present. Lowmedium viscosity mineral oils must have an average molecular mass of 480500 Daltons, a viscosity value of 8.511 centistokes, and no more than 5% of hydrocarbons with a carbon chain length less than C25 atoms may be present	
WILD FLOWER HONEY	Honey		This substance must contain less than 40 mg/kg of 5hydroxymethylfurfural (HMF), in accordance with EU COUNCIL DIRECTIVE 2001/110/EC of 20 December 2001 relating to honey.	x
WILD FLOWER HONEY	Honey		The CIR panel notes this substance may be contaminated with harmful impurities. EWG requires that this substance contains undetectable levels of the following: pesticides, heavy metals, polychlorinated biphenyls/persistent organic pollutants, and antibiotics.	x
WILD FLOWER HONEY	Honey		The CIR panel concluded this substance is safe as used up to a concentration of 22%.	x
XANTHAN GUM	XANTHAN GUM	11138-66-2	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
XYLANASE	Xylanase (from Thermomyces lanuginosis)	37278890	Product must not be inhalable. (designated as sensitizing asthmagen by the Association of Occupational and Environmental Clinics)	
XYLITOL	XYLITOL	87-99-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
XYLOBIOSE	XYLOBIOSE	6860-47-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
XYLOGLUCAN	XYLOGLUCAN	37294-28-3	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
XYLOSE	XYLOSE	58-86-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
YEAST AMINO ACIDS	YEAST AMINO ACIDS		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ZEAMAYS (CORN) COB MEAL	ZEAMAYS (CORN) COB MEAL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
ZEAMAYS (CORN) COB POWDER	ZEAMAYS (CORN) COB POWDER		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 10%.	
ZEAMAYS (CORN) GERM OIL	ZEAMAYS (CORN) GERM OIL		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 25%.	
ZEAMAYS (CORN) GLUTEN PROTEIN	ZEAMAYS (CORN) GLUTEN PROTEIN	66071-96-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
ZEAMAYS (CORN) KERNEL EXTRACT	ZEAMAYS (CORN) KERNEL EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ZEA MAYS (CORN) KERNEL MEAL	ZEA MAYS (CORN) KERNEL MEAL	66071-96-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 3%.	
ZEA MAYS (CORN) OIL	ZEA MAYS (CORN) OIL	8001-30-7	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 14%.	
ZEA MAYS (CORN) SILK EXTRACT	ZEA MAYS (CORN) SILK EXTRACT		The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.1%.	
ZEOLITE	CLAYS AND MINERALS	1318-02-1	Products containing clays and minerals must meet international heavy metal limits of: Lead: 10 ppm, Arsenic: 3 ppm, Cadmium: 3 ppm, Mercury: 1 ppm, Antimony: 5 ppm, Chromium: 100 ppm, and Nickel: 200 ppm; in the finished product.	
ZEOLITE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ZINC	ZINC	1314132	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ZINC ACETATE	ZINC ACETATE	557346	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC ACETATE	ZINC ACETATE	557-34-6	Per COSING, the maximum concentration of zinc in ready for use preparation is 1%	x
ZINC ADENOSINE TRIPHOSPHATE	ZINC ADENOSINE TRIPHOSPHATE	6602831	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC ASCORBATE	ZINC ASCORBATE	134343967	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC ASCORBATE	ZINC ASCORBATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC ASPARTATE	ZINC ASPARTATE	36393201	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC ASPARTATE	ZINC ASPARTATE	36393-20-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC BORATE	ZINC BORATE	1332076	The European Commission restricts this ingredient to a maximum concentration of 5% (as boric acid) in talc, but it cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). Additionally, the European Commission restricts its concentration to 0.1% (as boric acid) in oral products. For all other products (excluding bath products and hair waving products), the maximum concentration is restricted to 3% (as boric acid) and cannot be used on peeling or irritated skin if the concentration of free soluble borates exceeds 1.5% (as boric acid). For all product types, this ingredient cannot be used for children under 3 years of age. Lastly, the European Commission restricts this ingredient to a maximum concentration of 1% (as zinc) in all product types. Required Warning: The European Commission requires the following warning text on the label/package of talc products: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'. For oral products, the following are required on the product label/package: 'Not to be swallowed'; 'Not to be used for children under 3 years of age'. Lastly, for all other product types (excluding bath products and hair waving products), the following are required on the label/package: 'Not to be used for children under 3 years of age'; 'Not to be used on peeling or irritated skin'	

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ZINC BOROSILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ZINC CARBONATE	ZINC CARBONATE	3486-35-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC CARBONATE HYDROXIDE	ZINC CARBONATE HYDROXIDE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC CHLORIDE	zinc chloride	7646857	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC CHLORIDE	ZINC CHLORIDE	7646-85-7	Per COSING, the maximum concentration of zinc in ready for use preparation is 1%	x
ZINC CHLORIDE	ZINC CHLORIDE	7646-85-7	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC CITRATE	ZINC CITRATE TRIHYDRATE	546463	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC CITRATE	ZINC CITRATE	546463	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC CITRATE	ZINC CITRATE	546-46-3	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2% in rinseoff products and 0.05% in leaveon products.	
ZINC CITRATE TRIHYDRATE	ZINC CITRATE TRIHYDRATE	546463	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC CITRATE TRIHYDRATE	ZINC CITRATE	546463	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC COCETH SULFATE	ZINC COCETH SULFATE		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC COCETH SULFATE	ZINC COCETH SULFATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ZINC COCO-SULFATE	ZINC COCOSULFATE	22397586	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC CYSTEINATE	ZINC CYSTEINATE		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC CYSTEINATE	ZINC CYSTEINATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC DIBUTYLDITHIOCARBAMATE	ZINC DIBUTYLDITHIOCARBAMATE	136232	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC FORMALDEHYDE SULFOXYLATE	ZINC FORMALDEHYDE SULFOXYLATE	24887067	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC GLUCOHEPTONATE	ZINC GLUCOHEPTONATE	12565638	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC GLUCONATE	ZINC GLUCONATE	4468-02-4	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC GLUCONATE	ZINC GLUCONATE	4468-02-4	Per COSING, the maximum concentration of zinc in ready for use preparation is 1%	x
ZINC GLUCONATE	ZINC GLUCONATE	4468-02-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC GLUTAMATE	ZINC GLUTAMATE	1949151	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC GLUTAMATE	GLUTAMIC ACID, ZINC SALT, DL	1949151	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC GLUTAMATE	ZINC GLUTAMATE		Per COSING, the maximum concentration of zinc in ready for use preparation is 1%	x
ZINC GLUTAMATE	ZINC GLUTAMATE		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x

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ZINC GLYCINATE	ZINC GLYCINATE	14281835	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC GLYCINATE	ZINC GLYCINATE	14281-83-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC HYDROLYZED COLLAGEN	ZINC HYDROLYZED COLLAGEN		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC HYDROLYZED COLLAGEN	ZINC HYDROLYZED COLLAGEN		The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use.	x
ZINC HYDROXIDE	ZINC HYDROXIDE	20427-58-1	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC LACTATE	ZINC LACTATE	16039535	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC LACTATE	ZINC LACTATE	16039-53-5	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC LAURATE	ZINC LAURATE	2452-01-9	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC MAGNESIUM ASPARTATE	ZINC MAGNESIUM ASPARTATE		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC MYRISTATE	ZINC MYRISTATE	16260-27-8	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 20%.	
ZINC NEODECANOATE	ZINC NEODECANOATE	27253-29-8	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC OXIDE	ZINC	1314132	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ZINC OXIDE	ZINC OXIDE	1314-13-2	Per the U.S. FDA., zinc oxide shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Zinc oxide (as ZnO), not less than 99 percent. Loss on ignition at 800 °C, not more than 1 percent. Cadmium (as Cd), not more than 15 parts per million. Mercury (as Hg), not more than 1 part per million. Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 20 parts per million.	x
ZINC OXIDE (sunscreen grade > 100nm)	ZINC	1314132	EWG does not allow this ingredient in powders or sprays because the Association of Occupational and Environmental Clinics (AOEC) has classified this substance as an asthmagen.	
ZINC OXIDE (sunscreen grade > 100nm)	zinc oxide	1314-13-2	The European Commission restricts this ingredient to a maximum concentration of 25% as a UV filter. In the case of combined use with Zinc Oxide (nano), the sum shall not exceed the limit of 25%. Additionally, this ingredient may not be used in applications that may lead to exposure of the enduser's lungs by inhalation. Only nanomaterials having the following characteristics are allowed: — purity ≥ 96 %, with wurtzite crystalline structure and physical appearance as clusters that are rodlike, starlike and/or isometric shapes, with impurities consisting only of carbon dioxide and water, whilst any other impurities are less than 1 % in total, — median diameter of the particle number size distribution D50 (50 % of the number below this diameter) > 30 nm and D1 (1 % below this size) > 20 nm, — water solubility < 50 mg/L, —uncoated, or coated with triethoxycaprylsilane, dimethicone, dimethoxydiphenylsilanetriethoxycaprylsilane cross polymer, or octyl triethoxy silane.	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ZINC OXIDE (sunscreen grade > 100nm)	zinc oxide	1314132	Product must not be inhalable. (designated as sensitizing asthmagens by the Association of Occupational and Environmental Clinics)	
ZINC OXIDE (sunscreen grade > 100nm)	ZINC OXIDE (sunscreen grade > 100nm)	1314-13-2	Per the U.S. FDA., zinc oxide shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Zinc oxide (as ZnO), not less than 99 percent. Loss on ignition at 800 °C, not more than 1 percent. Cadmium (as Cd), not more than 15 parts per million. Mercury (as Hg), not more than 1 part per million. Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 20 parts per million.	x
ZINC OXIDE (sunscreen grade > 100nm)	ZINC OXIDE (sunscreen grade > 100nm)	1314-13-2	Per COSING, prohibited for use in applications that may lead to exposure of the end-user's lungs by inhalation.	x
ZINC OXIDE (sunscreen grade < 100nm)	ZINC OXIDE (sunscreen grade < 100nm)	1314-13-2	Per the U.S. FDA., zinc oxide shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice: Zinc oxide (as ZnO), not less than 99 percent. Loss on ignition at 800 °C, not more than 1 percent. Cadmium (as Cd), not more than 15 parts per million. Mercury (as Hg), not more than 1 part per million. Arsenic (as As), not more than 3 parts per million. Lead (as Pb), not more than 20 parts per million.	x
ZINC PCA	ZINC PCA		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC PENTADECENE TRICARBOXYLATE	ZINC PENTADECENE TRICARBOXYLATE		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC PEROXIDE	zinc peroxide	1314223	The European Commission restricts this ingredient to a maximum concentration of 12% of H2O2 (40 volumes, present or released) in hair products, 4% of H2O2 (present or released) in skin products, 2% of H2O2 (present or released) in nail hardening products, 0.1% of H2O2 (present or released) in oral products, including mouth rinse, tooth paste and tooth whitening or bleaching products, and greater than 0.1% but less than or equal to 6% of H2O2 (present or released) in tooth whitening or bleaching products. Additionally, the products with this ingredient can only be sold to dental practitioners, and for each cycle of use, the first use must be done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards, the product may be provided to the consumer to complete the cycle of use. The product cannot to be used on a person under 18 years of age. Lastly, for products intended for eyelashes, the concentration cannot exceed 2% of H2O2, present or released, and is permitted for professional use only. Required Warning: The European Commission requires the following on the label/package of hair products: 'Wear suitable gloves'; 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For skin and nail hardening products, the following warnings are required: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. For tooth whitening or bleaching products: 'Contains hydrogen peroxide'; 'Avoid contact with eyes'; 'Rinse immediately if product comes into contact with them'. Concentration of H2O2 present or	

Substance/Ingredient	Alternative name	CAS	EWG VERIFIED™ Product Restrictions *	2022 Update
ZINC PEROXIDE	ZINCPEROXIDE	1314223	Health Canada requires manufacturers of oral products containing peroxides or peroxidegenerating compounds to submit the following information: data on the pH of the cosmetic product, when it is applied to the tooth or teeth, i.e. that the pH is greater than or equal to 4.0; product labelling demonstrating that all cautionary statement requirements have been met. If an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit safety evidence that the product does not cause the saliva or soft tissue of the oral cavity to exceed 3% hydrogen peroxide, and is safe when used as directed. Required Warning: Health Canada requires the following warning text on the package/label of oral products: 'If irritation (such as redness, swelling, soreness) of the gums or the mouth occurs, discontinue use and consult a dentist'; 'Products containing peroxides are not recommended for use by children under 12 years of age'; 'Use for periods of longer than 14 days is to be only under the supervision of a dentist'; 'Avoid swallowing the cosmetic or part thereof'; 'Avoid contact of the product with the eye'; 'Avoid direct contact of the active surface of the tooth whitening product with the gums and/or salivary flow.'	
ZINC PEROXIDE	ZINC PEROXIDE	1314-22-3	According to Section 13 of Canada's Cosmetic Regulations the pH of oral products containing this ingredient must be greater than or equal to 4.0. Additionally, if an oral cosmetic contains more than 3% hydrogen peroxide (or equivalent), notifiers must submit a clinical study to demonstrate the salivary peroxide levels do not exceed 3% during the use of the product as per the directions of use.	x
ZINC PHENOLSULFONATE	ZINC PHENOLSULFONATE	127822	The European Commission restricts this ingredient to a maximum concentration of 6% (as % of anhydrous substance) in deodorants, antiperspirants, and astringent lotions. Required Warning: The European Commission requires the following warning text on the product label/package: 'Avoid contact with eyes'	
ZINC PHENOLSULFONATE	ZINC PHENOLSULFONATE	127-82-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 4%.	
ZINC PHENOLSULFONATE	ZINCPHENOLSULFONATE	127-82-2	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 2% in leaveon products.	
ZINC PICOLINATE	ZINC PICOLINATE	17949654	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC PYRITHIONE	Zinc pyrithione	13463417	The European Commission restricts this ingredient to a maximum concentration of 0.1% in leaveon hair products. For purposes other than inhibiting the development of microorganisms in the product, this purpose has to be apparent on the product label.	
ZINC PYRITHIONE	ZINCPYRITHIONE	13463-41-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.1% in rinseoff products (not applied to mucosa).	
ZINC PYRITHIONE	ZINCPYRITHIONE	13463-41-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.01% in products meant to be applied to the mucosa.	
ZINC PYRITHIONE	ZINCPYRITHIONE	13463-41-7	The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.01% in leaveon products (not applied to mucosa).	
ZINC PYRITHIONE	Pyrrithione zinc (4)	13463417	(*) The European Commission restricts this ingredient to a maximum concentration of 1.0% in hair products and 0.5% in other products	
ZINC RICINOLEATE	ZINC RICINOLEATE	13040-19-2	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 2%.	

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ZINC SALICYLATE	ZINC SALICYLATE ZINC SALICYLATE	16283366	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC SALICYLATE	ZINC SALICYLATE	16283-36-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ZINC SULFATE	ZINC SULFATE	7733020	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC SULFATE	ZINC SULFATE, MONOHYDRATE	7446197	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC SULFATE	ZINC SULFATE	7733-02-0	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC SULFATE MONOHYDRATE	ZINC SULFATE, MONOHYDRATE	7446197	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC SULFATE, MONOHYDRATE	ZINC SULFATE, MONOHYDRATE	7446197	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC SULFIDE	Luminescent zinc sulfide	1314-98-3	The U.S. Food and Drug Administration restricts the copper, lead, arsenic, mercury, and cadmium content of this ingredient to maximum concentrations of 5 ppm, 20 ppm, 3 ppm, 1 ppm and 15 ppm, respectively.	
ZINC THIOSALICYLATE	ZINC THIOSALICYLATE	16742828	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC UNDECENOATE	ZINC UNDECENOATE	557-08-4	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZINC UNDECYLENOYL HYDROLYZED WHEAT PROTEIN	ZINC UNDECYLENOYL HYDROLYZED WHEAT PROTEIN		The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC(II) NITRATE	ZINC(II) NITRATE	7779886	The European Commission restricts this ingredient to a maximum concentration of 1% (as zinc).	
ZINC(II) NITRATE	ZINC(II) NITRATE	7779-88-6	The Cosmetic Ingredient Review found this substance was safe as used at the reported concentrations of use when formulated to be non-irritating.	x
ZIRCONIUM POWDER	Zirconium	7440677	Health Canada restricts the use of this ingredient to aluminum zirconium complexes and as zirconium lakes, salts and pigments of colouring agents only, and cannot be used in aerosol dispensers.	
ZIRCONIUM POWDER	Zirconium	7440-67-7	The Japanese Ministry of Health, Labour and Welfare bans this ingredient from use in aerosol products.	
ZIRCONIUM SILICATE	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x
ZIRCONIUM(IV) SILICATE (1:1)	Silica, amorphous; silicate; borosilicate	7631869	A 2019 CIR report lists the following heavy metal limits for silica: antimony (< 5 ppm), chromium (< 10 ppm), arsenic (< 3 ppm), lead (< 10 ppm), mercury (< 1 ppm), cadmium (< 1ppm), and selenium (< 1 ppm). Older CIR reports for varied silicate, borosilicate, and methicone substances suggest that similar restrictions should apply to these substances as well.	x

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ZONARIA TOURNEFORTII (ALGAE) EXTRACT	Algae and related substances		Based on a Cosmetic Ingredient Review safety assessment of brown algae derived ingredients, EWG restricts the amount of iodine in the final product to 1 ppm. Additionally, products formulated with this substance must meet international standards for heavy metal concentrations including, cadmium; 3 ppm, lead; 10 ppm, mercury; 1ppm, and arsenic; 3 ppm.	x
ZYTEX	thymol	89838	The Cosmetic Ingredient Review has determined that this ingredient is safe as used up to a concentration of 0.5%.	
ZYTEX	thymol		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in rinseoff products (not applied to mucosa).	
ZYTEX	thymol		The Japanese Ministry of Health, Labour and Welfare restricts this ingredient to a maximum concentration of 0.05% in leaveon products (not applied to mucosa).	