

Chemicals of Concern in Cosmetics





Campaign for Safe Cosmetics







Chemicals of Concern in Cosmetics

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Chemicals of Concern

TIER 1

"DO NOT USE" CHEMICALS OF CONCERN FOR EVERYONE

KEY CAS NUMBER: Chemical Abstracts Service Number

IFRA: International Fragrance Association

Chemical is on the IFRA List (2022)

♦ Association supported by peer-reviewed literature

PBT: Persistent, Bioaccumulative, & Toxic

					СНЕ	ONIC HEALTH EFFE	стѕ			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	PBT	Chronic Aquatic Tox	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
1506-02-1	l-(5,6,7,8-Tetrahydro- 3,5,5,6,8,8-hexamethyl- 2-naphthyl)ethan-1-one (Fixolid)	•			ChemSec SIN List					GHS 410			
71-55-6	1,1,1-Trichloroethane		IARC Probable										
107-21-1	1,2-Ethanediol; Ethylene glycol; PEG-23M	•					Prop 65						
123-91-1	1,4-Dioxane (contamination concern)		IARC Possible NTP RA Prop 65	SSI Mammary				GHS H336					GHS 319
2475-45-8	1,4,5,8- tetraaminoanthraquinone		ChemSec SIN List										
71-36-3	1-Butanol	•						GHS 336				GHS 315	GHS 318
104-76-7	1-Hexanol, 2-ethyl-	•					GHS 361d			GHS 412		GHS 314	GHS 319
57018-52-7	1-tert-Butoxypropan-2-ol		IARC Possible										
1072-63-5	1-vinylimidazole						EU Candidate List of SVHC (Article 57c)						
131-56-6	Benzophenone-1; 2,4-Dihydroxybenzophenon; Resbenzophenone	•			SINLIST; EU Category 1	*				GHS 411		GHS 315	GHS 319
142-83-6	2,4-Hexadienal (89% trans, trans isomer; 11% cis, trans isomer) (aka. Sorbaldehyde)		IARC Possible										
119313-12-1	2-benzyl-2- dimethylamino-4'- morpholinobutyrophenone						EU Candidate List of SVHC (Article 57c)						

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CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic Tox	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
95-85-2	2-Amino-4-chlorophenol		IARC Possible Prop 65										
111-15-9	2-ethoxyethyl acetate						ChemSec SIN List						
103-11-7	2-ethylhexyl acrylate		IARC Possible Prop65										
5466-77-3	Octinoxate (2-Ethylhexyl- p-methoxycinnamate; 2-Propenoic acid, 3-(4-methoxyphenyl)-, 2-ethylhexyl ester)	•			EU Category 1; SINLIST								
95-48-7	2-Methylphenol, o-Cresol	•	GHS 351							GHS 412		GSH 314 GHS 315	GHS 318
78-83-1	2-Methylpropanol	•						GHS H336				GHS 315	GHS 318
15087-24-8	3-Benzylidene camphor (3-BC); 1,7,7-trimethyl- 3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one				ChemSec SIN List								
2497-59-8	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated (group)				European Union								
36861-47-9	4-methylbenzylidene camphor, 4-MBC	•			Chemsec Sin List; EU SVHC; EU Category 1		GHS 361						
75-07-0	Acetaldehyde	•	IARC Possible NTP RA Prop 65							GHS 411			GHS 319
67-64-1	Acetone	•						GHS 336					GHS 319
7440-38-2	Arsenic		IARC Known Prop 65		♦	*				GHS 410		GHS 314	GHS 319
100-52-7	Benzaldehyde	•						GHS 336		GHS 412		GHS 315	GHS 318
71-43-2	Benzene		IARC Known NTP Known Prop 65	SSI Mammary	♦	\$	\$	GHS H336		GHS 412		GHS 315	GHS 319
271-89-6	Benzofuran		IARC Possible Prop 65										

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CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic Tox	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
119-61-9	<u>Benzophenone</u>	•	IARC Possible Prop 65			\$				GHS 410 GHS 411 GHS 412		GHS 315	GHS 319
131-55-5	Benzophenone-2	•			SINLIST; EU Category 1								
100-44-7	Benzyl chloride		IARC Probable Prop 65									GHS 315	GHS 318
118-58-1	Benzyl Salicylate; Benzoic acid, 2-hydroxy-, phenylmethyl ester	•			♦					GHS 411		EU Fragrance Allergen GHS 315	GHS 319
123-35-3	beta-Myrcene	•	IARC Possible Prop 65							GHS 410 GHS 411 GHS 412		GHS 315	GHS 319
10043-35-3	Boric acid						ChemSec SIN List						
111-76-2	Butoxyethanol	•	IARC				GHS 361				AOEC R	GHS 315	GHS 319
123-86-4	Butyl Acetate; Acetic acid, butyl ester	•						GHS H336		GHs 410			
25013-16-5	Butylated hydroxyanisole (BHA)	•	IARC Possible NTP RA Prop 65										
128-37-0	Butylated hydroxytoluene (BHT)	•	GHS 351		ChemSec SIN List		GHS 361			GHS 410 GHS 413		GHS 315	GHS 319
94-26-8	<u>Butylparaben</u>	•			SINLIST	♦				NZ GHS 9.1D		GHS 315; Thürmann et al., 2021	GHS 318 GHS 319
6459-94-5	C.I. Acid Red 114		IARC Possible Prop 65										
7440-43-9	Cadmium and cadmium compounds		IARC Known Prop 65		♦	*	Prop 65		OPSAR PBT	GHS 410			
74-87-3	Chloromethane (methyl chloride)						Prop 65 Prop 65m						
1333-82-0	Chromium VI oxide		Prop 65				Prop 65f; Prop 65			GHS 410		GHS 314	GHS 318
8007-45-2	<u>Coal Tar</u>		IARC Known										

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68603-42-9	Cocamide DEA		IARC Possible										
7646-79-9	Cobalt dichloride						ChemSec SIN List						
4170-30-3	Crotonaldehyde		IARC Possible										
98-82-8	Cumene		IARC Possible NTP RA Prop 65							GHS 411 GHS 412			
110-82-7	cyclohexane							GHS 336		GHS 410		GHS 315	
540-97-6	Cyclohexasiloxane (D6)								ChemSec SIN List				
541-02-6	Cyclopentasiloxane, decamethyl- Cyclopentasiloxane Dow Silicone Q1401 (D5)	•							EU SVHC PBT	GHS 413		GHS 315	GHS 319
1333-86-4	D&C Black 2; Carbon Black		IARC Possible Prop 65							GHS 413			GHS 319
111-42-2	DEA; Diethanolamine		IARC Possible Prop 65							GHS 412	AOEC Rs	GHS 315	GHS 318
79-43-6	Dichloroacetic acid		IARC Possible Prop 65				Prop 65m			GHS 410		GHS 314	
75-09-2	Dichloromethane (methylene chloride)		IARC Probable NTP RA Prop 65	SSI Mammary				GHS 336				GHS 315	GHS 319
7173-51-5	Didecyldimethylammonium Chloride							GHS 336		GHS 410 GHS 411	AOEC Rs	GHS 314	GHS 318
111-46-6	Diethylene glycol Ethanol, 2,2'-oxybis-	•					GHS 361						
103-23-1	Diethylhexyl Adipate; Hexanedioic acid, 1,6-bis(2- ethylhexyl) ester	•			\$					NZ GHS 9.1A		GHS 315	GHS 319
71888-89-6	<u>Di-isoheptyl phthalate</u>						EU GHS Annex 6						

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122-39-4	Diphenylamine		IARC Possible										
81-11-8	Disodium 4,4'-Diaminostilbene-2,2'- Disulfonate			SSI Mammary						GHS 412			
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	•					GHS 361			GHS 411		GHS 315	GHS 318
140-67-0	Estragole	•	Prop 65										
112-34-5	Ethanol, 2-(2-butoxyethoxy)-	•						GHS H336				GHS 315	GHS 319
111-77-3	Ethanol, 2-(2-methoxyethoxy)- Methoxydiglycol	•					GHS 361d						GHS 319
141-78-6	Ethyl Acetate	•						GHS 336		GHS 410			GHS 319
140-88-5	Ethyl acrylate		IARC Possible Prop 65							GHS 412		GHS 315	GHS 319
120-47-8	Ethyl paraben				International Panel on Chemical Pollution (IPCP)	*				NZ GHS 9.1D		Thürmann et al., 2021	GHS 319
109-86-4	Ethylene Glycol Monomethyl Ether (EGME); 2-Methoxyethanol						EU SVHC Prop 65					GHS 315	GHS 319
75-21-8	Ethylene Oxide		IARC Known NTP Known Prop 65	SSI Mammary		*	Prop 65			NZ GHS 9.1D	AOEC Rr	GHS 315	GHS 319
93-15-2	Eugenyl methyl ether (Methyleugenol)	•	IARC Possible NTP RA Prop 65	SSI Mammary						GHS 411		GHS 315	GHS 319
573-58-0	FD&C Red N4 (CI 14700)						GHS 361d						
50-00-0	<u>Formaldehyde</u>		IARC Known NTP Known Prop 65			*				NZ GHS 9.1D	AOEC G	GHS 314	GHS 318
1222-05-5	Galaxolide (Musk); Cyclopenta[g]- 2-benzopyran, 1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8-hexamethyl-	•			ChemSec SIN List					GHS 410			

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548-62-9	Gentian violet (see also Leucogentian violet)		IARC Possible										
66-25-1	Hexanal	•						GHS 336					GHS 319
110-54-3	Hexane						Prop 65m GHS 361f	GHS 336		GHS 411		GHS 315	GHS 319
118-56-9	<u>Homosalate</u>	•			♦							GHS 315	GHS 319
123-31-9	Hydroquinone		GHS 351							GHS 410		GHS 315	GHS 318
2/3/4247	Isobutylparaben; Isobutyl 4-hydroxybenzoate				ChemSec SIN List								
97-54-1	Isoeugenol	•	IARC Possible									EU Fragrance Allergen GHS 315	GHS 319
108-21-4	Isopropyl Acetate	•						GHS H336					GHS 319
4191-73-5	Isopropyl paraben				♦								
7439-92-1 301-04-2	Lead & Lead compounds (including lead acetate and lead diacetate)		Prop 65		♦	\$	\$		OPSAR PBT	GHS 410			
80-54-6	Lilial	•					GHS 361f			GHS 411 GHS 412		EU Fragrance Allergen GHS 315	
7439-97-6	Mercury (elemental)				♦	\$	\$		OPSAR PBT	GHS 410			
67-56-1	Methanol						Prop 65						GHS 319
78-93-3	Methyl ethyl ketone	•						GHS 336					GHS 319
108-10-1	Methyl isobutyl ketone (MIBK)	•	IARC Possible Prop 65				Prop 65	GHS 336					GHS 319
80-62-6	Methyl Methacrylate									NZ GHS 9.1D	AOEC Rs	GHS 315	

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99-76-3	Methyl paraben	•	♦	♦	♦	*				GHS 412		GHS 315	GHS 319
119-36-8	Methyl salicylate	•					GHS 361			NZ GHS 9.1D		GHS 315	GHS 319
81-14-1	Musk Ketone	•	GHS 351				GHS 361	GHS 336		GHS 410			
81-15-2	Musk Xylene		EU Annex VI CMRs										
127-19-5	N,N-Dimethylacetamide						Prop 65						GHS 319
99-97-8	N,N-Dimethyl-p-toluidine		IARC Possible										
64742-48-9	Naphtha (petroleum), hydrotreated heavy; C10-12 Alkane/Cycloalkane	•						GHS 336		GHS 410 GHS 411 GHS 412 GHS 413		GHS 315	GHS 319
91-20-3	Naphthalene		IARC Possible NTP RA Prop 65			*				GHS 410			
7440-02-0	Nickel (Metallic)		IARC Possible Prop 65		♦	*	Prop 65			GHS 412	AOEC Rs		
872-50-4	N-Methylpyrrolidone (Methyl Pyrrolidone)						Prop 65					GHS 315	GHS 319
111-84-2	Nonane	•						GHS H336		GHS 411		GHS 315	GHS 319
556-67-2	Cyclotetrasiloxane (Octamethylcyclotetrasiloxane, D4)				♦								
21245-02-3	octyl dimethyl PABA				♦								
2646-17-5	Oil Orange SS		IARC Possible Prop 65										
95-54-5	o-Phenylenediamine and its salts		Prop 65							GHS 410			GHS 319

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90-43-7	o-Phenylphenol		Prop 65							GHS 410	AOEC R	GHS 315	GHS 319
131-57-7	Oxybenzone BP-3 Benzophenone-3	•			ChemSec SIN List	♦	NTP-R			GHS 410		GHS 315	GHS 319
101-53-1	p-Benzylphenol				EU Category 1								
106-44-5	p-Cresol	•	GHS 351		EU Category 2							GHS 314	GHS 318
335-67-1	Perfluorooctonoic Acid (PFOA)		IARC Possible		♦	*	EU SVHC Prop 65 ♦						GHS 318
62-44-2	Phenacetin		IARC Known Prop 65										
108-95-2	Phenol	•								GHS 411		GHS 314	GHS 318
119-47-1	Phenol, 2,2'-methylenebis[6- (1,1-dimethylethyl)-4- methyl-	•					GHS 360f			GHS 411			GHS 319
80-46-6	Phenol, 4-(1,1-dimethylpropyl)-				EU SVCH					GHS 410 GHS 411		GHS 314	GHS 318
91080-01-2	Placental Extract/Protein		**										
79-06-1	polyacrylamide		IARC Probable Prop 65				Prop 65m; Prop 65			GHS 412		GHS 315	GHS 319
106-50-3	P-Phenylenediamine					\$				GHS 410		Deleo et al., 2016	GHS 319
57-83-0	Progesterone		Prop 65										
71-23-8	Propanol	•						GHS H336					GHS 318
123-38-6	Propionaldehyde	•	USEPA IRIS										
94-13-3	Propyl paraben Propyl p-hydroxybenzoate	•			♦	\$		GHS 336		GHS 413		GHS 315	GHS 318 GHS 319

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75-56-9	Propylene Oxide		IARC Possible NTP RA Prop 65	SSI Mammary						NZ GHS 9.1C		GHS 314 GHS 315	GHS 319
107-98-2	Propyleneglycol monomethyl ether	•						GHS 336					
89-82-7	Pulegone	•	IARC Possible Prop 65				GHS 361f						
110-86-1	Pyridine	•	IARC Possible Prop 65							NZ GHS 9.1C		GHS 314	GHS 318 GHS 319
4080-31-3	Quaternium-15					*					***	GHS 315	GHS 319
91-22-5	Quinoline and its strong acid salts		IARC Possible Prop 65							GHS 411		GHS 315	GHS 319
108-46-3	Resorcinol				EU category 1					NZ GHS 9.1A		GHS 315	GHS 319
68-26-8 79-81-2 and others	Retinol/retinyl esters, when in daily dosages in excess of 10,000 IU, or 3,000 retinol equivalents. ()						Prop 65						
94-59-7	Safrole (Sassafras oil)		IARC Possible Prop 65										
69-72-7	Salicylic Acid	•					H361d						
7446-34-6	Selenium sulfide		Prop 65							GHS 410			
14808-60-7	Silica, crystalline (airborne particles of respirable size)		IARC Known										
14312-40-4	sodium borate		ChemSec				EU - SVHC Authorisation List						
100-42-5	Styrene (Cinnamene)	•	IARC Probable NTP RA Prop 65	SSI Mammary	EU Category 1	*	GHS 361d			NZ GHS 9.1A	AOEC RS	GHS 315	GHS 319
96-09-3	Styrene-7,8-oxide		IARC Probable										

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7446-09-5	Sulfur dioxide	•					Prop 65			NZ GHS 9.1A		GHS 314	GHS 318
14807-96-6	Talc (for asbestos contamination)		IARC Known										
14807-96-6	Talc (only in personal hygiene products)		IARC Possible			*							
75-65-0	Tertiary butyl alcohol (TBA) 2-Propanol, 2-methyl-	•						GHS 336					GHS 319
54-64-8	Thimerosal (ethylmercury)		Prop 65				Prop 65			GHS 410			
13463-67-7	Titanium Dioxide (TiO2) (Only in PCPs that can be inhaled)	•	IARC Possible										
108-88-3	<u>Toluene</u>					*	Prop 65 GHS 361	GHS H336		NZ GHS 9.1D		GHS 315	
21145-77-7	Tonalide (Musk)	•			ChemSec SIN List					GHS 410			
302-79-4	Trans retinoic acid (aka. Tretinoin)						Prop 65						
102-71-6	Tri Ethanol Amine Quat (Teaq); triethanolamine	•					GHS 361	GHS 336		GHS 411	AOEC Rs	GHS 315	GHS 319
101-20-2	<u>Triclocarban</u>					*				EC - CEPA DSL			
3380-34-5	<u>Triclosan</u>				♦	*	\$			GHS 410		GHS 315	GHS 319
115-86-6	Triphenyl phosphate, TPP				ChemSec SIN List								
15625-89-5	Trimethylolpropane triacrylate, technical grade		IARC Possible Prop 65										
1330-20-7	Xylenes; [o-xylene (95-47-6), m-xylene(108-38-3)and p-xylene (106-42-3)]	•					♦	♦		NZ GHS 9.1D		GHS 315	









Chemicals

TIER 1A

"DO NOT USE" CHEMICALS LINKED TO HEALTH OUTCOMES OF GREATER CONCERN TO BLACK WOMEN

KEY CAS NUMBER: Chemical Abstracts Service Number

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HEALTH OUTCOMES OF GREATER CONCERN TO BLACK WOMEN

CAS Number	Chemical Name	IFRA	Diabetes	Early Puberty	Endometriosis	Infertility	Earlier Age at Menopause	Less Successful IVF Outcomes	Maternal Health	Obesity	Ovarian Cancer	Polycystic Ovarian Syndrome	Pregnancy Complications	Preterm Birth	Uterine Fibroids	Allergic Reactions
131-56-6	2,4-Dihydroxybenzophenon; Resbenzophenone; Benzophenone-1	•			♦											
7440-38-2	Arsenic		\$			♦		♦	♦				♦			
71-43-2	Benzene					♦		\$	♦				♦	♦		
119-61-9	<u>Benzophenone</u>	•			♦					\$						
94-26-8	<u>Butylparaben</u>	•	\$						♦				♦	♦		\$
7440-43-9	Cadmium and cadmium compounds		\$	\$	♦	♦		♦	♦	♦		♦	♦	♦	♦	
120-47-8	Ethyl paraben		\$			♦		\$	♦				♦	♦		\$
75-21-8	Ethylene Oxide								♦				♦			
50-00-0	<u>Formaldehyde</u>								♦				♦			
7439-92-1	Lead & Lead compounds, Lead Acetate					♦		♦	♦				♦	♦		
7439-97-6	Mercury (elemental)		\$			♦		♦	♦	♦			♦	♦		
99-76-3	Methyl paraben	•		♦	♦								♦	♦		

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91-20-3	Naphthalene								♦				♦			
7440-02-0	Nickel (Metallic)		\$						\$	\$			♦			
25154-52-3	Nonylphenol (see Nonylphenol and their Ethoxylates Class)	•	\$						\$				\$		\$	
131-57-7	OxybenzoneBP-3 Benzophenone-3	•		♦	♦	♦		♦		♦						
335-67-1	Perfluorooctonoic Acid (PFOA) (see Appendix)		\$		♦	♦		\$	♦	\$		♦	\$			
106-50-3	P-Phenylenediamine															\$
94-13-3	Propyl paraben Propyl p-hydroxybenzoate	•	\$	♦	♦	♦			♦				\$	\$		
4080-31-3	Quaternium-15								♦				♦			
100-42-5	Styrene (Cinnamene)	•							\$				♦			
14807- 96-6	Talc (only in personal hygiene products)										♦					
108-88-3	<u>Toluene</u>								\$				♦	♦		
101-20-2	<u>Triclocarban</u>		\$							\$						
3380-34-5	<u>Triclosan</u>			♦		♦		\$	\$			♦	♦	\$		



Chemicals of Concern







KEY CAS NUMBER: Chemical Abstracts Service Number

The entire class of perfluoroalkyl and polyfluoroalkyl (PFAS) chemicals should be avoided. This is a list of the most frequently found PFAS in cosmetic products.

CHEMICAL NAME	CAS NUMBER
1-Propanaminium, N-(2-carboxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-1-oxononyl)amino]-N,N-dimethyl-, inner salt	119131-05-4
1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with (2-bromo-1,1,2,2-tetrafluoroethoxy)trifluoroethene, 1,1-difluoroethene and tetrafluoroethene	108144-05-4
acetyl trifluoromethylphenyl valylglycine	379685-96-8
ammonium c6-16 perfluoroalkylethyl phosphate	65530-72-5
Butane, 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-	163702-07-6
c9-15 fluoroalcohol phosphate	223239-92-7
chlorotrifluoropropene	102687-65-0
decafluoropentane	138495-42-8
dechloro dihydroxy difluoro ethylcloprostenolamide	1185851-52-8
diethylaminoethyl methacrylate/hema/perfluorohexylethyl methacrylate crosspolymer	105-16-8
dimethiconol fluoroalcohol dilinoleic acid	182700-77-2
dioctyldodecyl fluoroheptyl citrate	214334-16-4
Ethene, tetrafluoro-, oxidized, polymerized, reduced, decarboxylated, C10 fraction	274918-03-5

P: Persistent

ST RE: Specific Organ Toxicity, Repeated Exposure

CHEMICAL NAME	CAS NUMBER
ethyl perfluorobutyl ether	163702-05-4
ethyl perfluoroisobutyl ether	163702-06-5
methyl perfluorobutyl ether	163702-07-6
Methyl perfluorobutyl ketone	678-18-2
methyl perfluoroisobutyl ether	163702-08-7
octafluoropentyl methacrylate	355-93-1
pentafluoropropane	460-73-1
pentapeptide-3,4 trifluoroacetate	14533-84-7
perfluorodecalin	306-94-5
perfluorodimethylcyclohexane	26637-68-3
perfluorohexane	355-42-0
perfluoromethylcyclopentane	1805-22-7
perfluorononyl dimethicone	882878-48-0
perfluorononylethyl carboxydecyl peg-10 dimethicone	500208-75-3
perfluorononylethyl stearyl dimethicone	915223-67-5
perfluorooctanoic acid (PFOA)	335-67-1

P: Persistent

ST RE: Specific Organ Toxicity, Repeated Exposure

CHEMICAL NAME	CAS NUMBER
perfluorooctyl triethoxysilane	51851-37-7
perfluoroperhydrophenanthrene	2005-03-27
Phosphoric acid, mono (.gammaomegaperfluoro-C8-14-alkyl) esters, compounds with diethanolamine	92332-26-8
polyperfluoroethoxymethoxy difluoroethyl peg phosphate	88645-29-8
polyperfluoromethylisopropyl ether	69991-67-9
Polysilicone-7	146632-08-8
Polysiloxanes, di-Me, Me 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-nonadecafluorododecyl	259725-95-6
Polytetrafluoroethylene (PTFE)	9002-84-0
Propane, 2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoro-	163702-08-7
tetradecyl aminobutyroylvalylaminobutyric urea trifluoroacetate	934368-60-2
tetrafluoropropene	754-12-1
trifluoroacetyl tripeptide-2	64577-63-5
trifluoromethyl c1-4 alkyl dimethicone	n/a
trifluoropropyldimethyl/trimethylsiloxysilicate	n/a
Trimethylsiloxy silica, copolymer with 1,1,2,2-tetrahydroperfluoro-1-decanol	254889-67-3









TIER 1C NONYLPHENOLS AND THEIR ETHOXYLATES CLASS

KEY

AA: Acute Aquatic Toxicant B: Bioaccumulative C: Carcinogen

CA: Chronic Aquatic Toxicant

CAS NUMBER: Chemical Abstracts Service Number D: Developmental Toxicant

E: Endocrine Disruptor IrE: Eye Irritant

P: Persistent SnS: Skin Sensitizer

R: Reproductive Toxicant R: Reproductive Toxicant ST RE: Specific Organ Toxicity, Repeated Exposure ST SE: Specific Organ Toxicity, Single Exposure

The entire class of NPs (Nonylphenols) and NPEs (Nonyphenol Ethoxylates) should be avoided. This is a list of the most frequently found NPs and NPEs in cosmetic products. Nonylphenols and their ethoxylates are a subclass of nonionic surfactants called alkylphenol ethoxylates (APEOs).

CHEMICAL NAME	CAS NUMBER	HAZARD		
4-Nonylphenol, branched	84852-15-3	R, D, E, AT, ST, IrS, IrE, AA, CA, PBT		
Nonylphenol	25154-52-3	R, D, E, AT, ST, IrS, IrE, AA, CA, PBT		
Nonylphenol, branched, ethoxylated (Nonoxynol-12)	68412-54-4	R, D, E, AT, ST, IrS, IrE, AA, CA, PBT		
Nonylphenol, ethoxylated	9016-45-9	R, D, E, AT, ST, IrS, IrE, AA, CA, PBT		









TIER 1D FORMALDEHYDE RELEASING PRESERVATIVES CLASS

KEY CAS NUMBER: Chemical Abstracts Service Number

The entire class of formaldehyde releasing preservative (FRP) should be avoided. FRP means any preservative chemical that slowly releases formaldehyde to preserve a personal care product.

CHEMICAL NAME	CAS NUMBER
1,3,5-Triethylhexahydro-s-triazine	7779-27-3
1,3-Dimethyl-4,5-dihydroxyethyleneurea	3923-79-3
2-chloro-N-(hydroxymethyl)-acetamide	16228-00-5
4,4'-Methylenedimorpholine	5625-90-1
5-Bromo-5-nitro-1,3-dioxane	30007-47-7
Benzylhemiformal	14548-60-8
Bioban CS-1135	81099-36-7
Bioban CS-1246	7747-35-5
Bioban P-1487	37304-88-4
Bronopol	52-51-7
Diazolidinylurea	78491-02-8
Dihydroxydimethylolethyleneurea, methylated	68411-81-4

CHEMICAL NAME	CAS NUMBER
Dimethylhydantoin formaldehyde resin	26811-08-5
Dimethylol urea	140-95-4
Dimethyloldihydroxyethyleneurea	1854-26-8
Dimethylolethyleneurea	136-84-5
Dimethylolpropyleneurea	3270-74-4
DMDM hydantoin	6440-58-0
DMHF	9065-13-8
Forcide 78 I	77044-78-1
Glyoxal	107-22-2
Glyoxalurea	3720-97-6
Imidazolidinyl Urea	39236-46-9
MDM hydantoin	116-25-6
Methenamine	100-97-0
methylal	109-87-5
Methylene glycol	463-57-0
Methylol urea	1000-82-4

CHEMICAL NAME	CAS NUMBER
N,N '-Methylenebis(5-methyloxazolidine)	66204-44-2
N-Methylol-chloracetamide	2832-19-1
N-methylolethanolamine	34375-28-5
Paraformaldehyde	30525-89-4
Poly(p-toluenesulfonamide-co-formaldehyde) -PTSAF	25035-71-6
Polyoxymethylene	9002-81-7
Polyoxymethylene melamine	9003-08-1
Polyoxymethylene Urea	9011-05-6
Preventol D2	2749-70-4
Quaternium 15	51229-78-8
sodium hydroxymethylglycinate (Propyleneglycol hemiformal)	70161-44-3
Tetramethylol acetylenediurea	5395-50-6
Timonacic acid	60731-25-1
Tris(hydroxymethyl)-nitromethane	126-11-4
Tris(N-hydroxyethyl) hexahydrotriazine	25254-50-6
Urea, bis(hydroxymethyl)	25155-29-7
Urea, polymer with formaldehyde, isobutylated	68002-18-6











KEY

AA: Acute Aquatic Toxicant
B: Bioaccumulative
C: Carcinogen

CA: Chronic Aquatic Toxicant

CAS NUMBER: Chemical Abstracts Service Number

D: Developmental Toxicant

E: Endocrine Disruptor **IrE:** Eye Irritant

P: Persistent

R: Reproductive Toxicant
R: Reproductive Toxicant
SnS: Skin Sensitizer

ST RE: Specific Organ Toxicity, Repeated Exposure **ST SE:** Specific Organ Toxicity, Single Exposure

The entire class of ortho-phthalates should be avoided. Ortho-phthalates means a class of chemicals that are esters of ortho-phthalic acid.

CHEMICAL NAME	CAS NUMBER	HAZARD
Benzyl-butyl phthalate (BBP)	85-68-7	C, R, D, E, ST SE, AA, B
Di-butyl phthalate (DBP)	84-74-2	C, R, D, E, ST SE, SnS, IrE, AA
Di-cyclohexyl phthalate (DCHP)	84-61-7	R, D, E, ST SE, ST RE, SnS, CA
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	C,R,D, E, ST SE, B
Diethyl phthalate (DEP)	84-66-2	D, AA, P
Di-isobutyl phthalate (DIBP)	84-69-5	R, D, E, AA
Di-isodecyl phthalate (DIDP)	26761-40-0	D, R, E, ST RE
Di-isononyl phthalate (DINP)	28553-12-0	R, D, E, ST RE, IrE
Di-n-hexyl phthalate (DnHP)	84-75-3	C, R, D, E, CA
Di-n-octyl phthalate (DNOP)	117-84-0	R, D, E
Di-n-pentyl phthalate (DNPP)	131-18-0	R, D, E, AA
Di-isoheptyl phthalate (DIHP)	71888-89-6	D, R









TIER 2 EMERGING & HARMFUL TO THE ENVIROMENT

KEY CAS NUMBER: Chemical Abstracts Service Number

IFRA: International Fragrance Association

Chemical is on the IFRA List (2022)

♦ Association supported by peer-reviewed literature

PBT: Persistent, Bioaccumulative, & Toxic

Disclose and consider replacing or removing because of emerging health concerns and ecotoxicity.

			CHRONIC HEALTH EFFECTS								EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHWAGENS, ALLERGENS & IRRITA		
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Health Ou Greater C Black V	oncern to	Reproductive/ Developmental	Neurotoxicity	PBT	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
7785-70-8	(IR)-2,6,6- Trimethylbicyclo[3.1.1] hept-2-ene	•									NZ GHS 9.1B		GHS 315	GHS 319
95-63-6	1,2,4-Trimethylbenzene	•									GHS 411 GHS 413		GHS 314 GHS 315	GHS 319
108-67-8	1,3,5-Trimethylbenzene	•									GHS 411		GHS 315	GHS 319
128-80-3	1,4-bis(p-Tolylamino) anthraquinone (Solvent Green 3; CI 61565) when used as a substance in hair dye products	•									GHS 413		GHS 315	GHS 319
112-30-1	1-Decanol	•									GHS 411		GHS 315	GHS 319
111-27-3	1-Hexanol	•									NZ GHS 9.1D		GHS 315	GHS 319
90-12-0	1-Methylnaphthalene	•									GHS 411	EU EC H334	GHS 315	GHS 319
71-41-0	1-Pentanol	•									NZ GHS 91.D		GHS 315	GHS 318 GhS 319
105-67-9	2,4-Dimethylphenol	•									GHS 411		GHS 314	GHS 318
5471-51-2	2-Butanone, 4-(4-hydroxyphenyl)-	•			♦									

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PBT: Persistent, Bioaccumulative, & Toxic

			CHRONIC HEALTH EFFECTS								EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGENS, ALLERGENS & IRRITANT		
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Health Ou Greater C Black V	oncern to	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
118-60-5	2-Ethylhexyl salicylate	•									GHS 413; Kunz et al., 2006		GHS 315	
26172-55-4	3(2H)-Isothiazolone, 5-chloro-2-methyl-	•									GHS 410		GHS 314	
13466-78-9	3-Carene	•									GHS 410 GHS 411 GHS 412	AOEC Rs	GHS 315	
127-51-5	3-Methyl-4-(2,6,6-trimethyl- 2-cyclohexen-l-yl)-3-buten- 2-one; alpa-isomethyl ionone	•									GHS 411 GHS 412		EU Fragrance Allergen GHS 315	GHS 319
108-39-4	3-Methylphenol; m-Cresol	•									NZ GHS 9.1D		GHS 314	GHS 318
127087- 87-0	4-Nonylphenol, branched, ethoxylated	•								OPSAR PBT	GHS 410 GHS 411		GHS 315	GHS 319
127087- 87-0	4-Nonylphenol, branched, ethoxylated	•								OPSAR PBT	GHS 410 GHS 411		GHS 315	GHS 319
98-29-3	4-tert-Butylpyrocatechol				♦						GHS 410 GHS 411		GHS 314	GHS 318
30007- 47-7	5-bromo-5-nitro-1,3-dioxane (Bronidox C)										NZ GHS 9.1A		GHS 314	GHS 318
3100-36-5	8-Cyclohexadecen-1-one	•									GHS 410			
79-10-7	Acrylic Acid; carbomer										GHS 411	AOEC R	GHS 314	GHS 318
68551-12-2	Alcohol Ethoxylates (C12-16)										NZ GHS 9.1A		GHS 315	GHS 318
85507-69-3	aloe barbadensis leaf extract/ aloe vera		IARC Possible										GHS 315	GHS 319
79-14-1	Alpha-hydroxy acids										NZ GHS 9.1D		GHS 314	GHS 318

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PBT: Persistent, Bioaccumulative, & Toxic

			CHRONIC HEALTH EFFECTS									RGING RMFUL THE DNMENT		
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Health Ou Greater C Black V	oncern to	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
98-55-5	alpha-Terpineol	•									GHS 413		GHS 315	GHS 319
1336-21-6	Ammonium Hydroxide										GHS 411	AOEC Rr & Rs	GHS 314	GHS 318
122-40-7	Amyl cinnamal	•									GHS 411		EU Fragrance Allergen GHS 315	
8001-54-5	Benzalkonium chloride; Alkyl Benzyl Dimethyl Ammonium Chloride Mixture										NZ GHS 9.1A GHS 410	AOEC Rs	GHS 314	GHS 318
65-85-0	Benzoic acid	•			\$						GHS 412		GHS 315	GHS 318
2050-08-0	Benzoic acid, 2-hydroxy-, pentyl ester	•									NZ GHS 9.1A			
120-51-4	Benzyl Benzoate	•									GHS 411 GHS 412		EU Fragrance Allergen	
103-41-3	Benzyl cinnamate	•									GHS 411		EU Fragrance Allergen	
127-91-3	beta-Pinene	•									GHS 410		EU Fragrance Allergen GHS 315	GHS 319
92-52-4	Biphenyl	•									GHS 410		GHS 315	GHS 319
123-72-8	Butanal	•									NZ GHS 9.ID			GHS 319
105-54-4	Butanoic acid, ethyl ester	•									NZ GHS 9.1C		GHS 315	GHS 319
1305-62-0	Calcium Hydroxide										NZ GHS 9.1D		GHS 315	GHS 318
79-92-5	Camphene	•									GHS 410			GHS 319

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PBT: Persistent, Bioaccumulative, & Toxic

					СН	IRONIC HEA	ALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine		tcomes of oncern to Vomen	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
76-22-2	Camphor	•									GHS 411		GHS 315	GHS 319
55406- 53-6	Carbamic acid, butyl-, 3-iodo-2-propynyl ester				\$						GHS 410		GHS 315	GHS 318
87-44-5	Caryophyllene	•									GHS 413		GHS 315	GHS 319
104-55-2	Cinnamal	•			♦						NZ GHS 9.1A		EU Fragrance Allergen GHS 315	GHS 319
106-22-9	Cirtonellol; citral citronellol	•									GHS 411		EU Fragrance Allergen GHS 315	GHS 319
5392-40-5	Citral	•									GHS 412		EU Fragrance Allergen GHS 315	GHS 319
8014-17-3	Citrus reticulata leaf oil	•									GHS 410 GHS 411		GHS 315	GHS 318 GHS 319
91-64-5	Coumarin	•									GHS 411 GHS 412		EU Fragrance Allergen GHS 315	GHS 318
98-52-2	Cyclohexanol, 4-(1,1-dimethylethyl)-	•			♦									GHS 319
5989-54-8	Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (S)-	•									GHS 410		GHS 315	
586-62-9	Cyclohexene, 1-methyl-4- (1-methylethylidene)-; Terpinolene	•									GHS 410 GHs 411		GHS 315	GHS 318
112-31-2	Decanal	•									GHS 412		GHS 315	GHS 319
53-43-0	Dehydroepiandrosterone (DHEA)						\$							
101-84-8	Diphenyl ether	•									NZ GHS 9.1B			

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PBT: Persistent, Bioaccumulative, & Toxic

					СН	IRONIC HEA	ALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Greater C	tcomes of oncern to Nomen	Reproductive/ Developmental	Neurotoxicity	PBT	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
107-64-2	Distearyldimonium Chloride										GHS 410			GHS 318
64742-46-7	Distillates (petroleum), hydrotreated middle	•									GHS 411 GHS 412		GHS 315	
5989-27-5	d-Limonene; limonene	•									GHS 410 GHS 412		EU Fragrance Allergen GHS 315	
112-54-9	Dodecanal	•									GHS 411		GHS 315	GHS 319
141-43-5	Ethanolamine (Monoethanolamine)	•				\$					GHS 412		GHS 314	GHS 318 GHS 319
68140-48-7	Ethanone, 1-[2,3-dihydro- 1,1,2,6-tetramethyl-3-(1- methylethyl)-1H-inden-5-yl]-	•			\$									
70445-33-9	Ethylhexylglycerin Polysilicone-11	•									GHS 412			GHS 318
8000-48-4	Eucalyptus oil	•									GHS 411	AOEC R	GHS 315	GHS 319
97-53-0	Eugenol	•									NZ GHS 9.1C		EU Fragrance Allergen GHS 315	GHS 319
4602-84-0	Farnesol	•									GHS 410		EU Fragrance Allergen GHS 315	GHS 319
2783-94-0	Fd&C Yellow 6	•			\$								GHS 315	GHS 319
64-18-6	Formic Acid	•									GHS 413		GHS 314 GHs 315	GHS 318 GHS 319
446-72-0	Genistein				\$									
111-30-8	Glutaral										GHS H400	GHS H334	GHS H314	

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PBT: Persistent, Bioaccumulative, & Toxic

					СН	IRONIC HEA	ALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Greater C	tcomes of oncern to Vomen	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
9036-19-5	Glycols, polyethylene, mono((1,1,3,3-tet = Poly (oxy-1,2-ethanediyl), .alpha [(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	•								EU SVHC PBT	NZ GHS 9.1A		GHS 315	GHS 319
9002-93-1	Glycols, polyethylene, mono(p-(1,1,3,3-t = Octoxynol = Poly(oxy-1,2-ethanediyl), alpha-(4-(1,1.3.3,- tetramethyl-butyl)phenyl)- omega-hydroxy-	•									NZ GHS 9.1A			
123-68-2	Hexanoic acid, 2-propenyl ester	•									GHS 411		GHS 315	GHS 319
107-75-5	Hydroxycitronellal Octanal, 7-hydroxy-3,7- dimethyl-	•									NZ GHS 9.1D		EU Fragrance Allergen GHS 315	GHS 319
120-72-9	Indole	•			♦						NZ GHS 9.1A		GHS 315	GHS 318
123-92-2	Isoamyl acetate	•									GHS 412			
37205-87-1	Isononylphenol-ethoxylate									OPSAR PBT	GHS 410 GHS 411 GHS 412 GHS 413		GHS 315	GHS 318 GHS 319
55965- 84-9	Isothiazolinone Chloride	•									GHS 410		GHS 314	GHS 318
8007-48-5	Laurus nobilis L., oil from the seeds of	•									GHS 411		GHS 315	GHS 319
2216-51-5	Levomenthol	•									NZ GHS 9.1C		GHS 315	GHS 318 GHS 319
138-86-3	Limonene	•									GHS H410		GHS 315	GHS 319
89-78-1	menthol	•									NZ GHS 9.1D	AOEC R	GHS 315	GHS 318 GHS 319

IFRA: International Fragrance Association

Chemical is on the IFRA List (2022)

♦ Association supported by peer-reviewed literature

PBT: Persistent, Bioaccumulative, & Toxic

					СН	IRONIC HE	ALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Greater C	tcomes of oncern to Vomen	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
134-20-3	Methyl anthranilate	•									NZ GHS 9.1B		GHS 315	GHS 319
74-93-1	Methyl Mercaptan	•									GHS 410			
85-91-6	Methyl N-methyl anthranilate	•									GHS 412		GHs 315	GHS 319
2682-20-4	<u>methylisothiazolinone</u>	•									GHS 410		GHS 314	GHS 318
91-57-6	Methylnaphthalene; 2-Methylnaphthalene	•									GHS 410 GHS 411			
8012-95-1 8042-47-5 , plus several dozen other CAS numbers related to petroleum products	Mineral oils Mineral oils, untreated and mildly treated ()										GHS 411		GHS 315	GHS 319
64741-65-7	Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha	•									GHS 410 GHS 411		GHS 315	GHS 319
334-48-5	n-Decanoic acid; Ethanol, 2-butoxy-	•			♦						GHS 412		GHS 315	GHS 319
57-10-3	n-Hexadecanoic acid	•				♦					GHS 412		GHS 315	GHS 319
n/a	Nanoparticles													
112-05-0	Nonanoic acid	•									GHS 412		GHS 314 GHS 315	GHS 318 GHS 319
57-11-4	Octadecanoic acid	•			♦									
112-80-1	Oleic Acid	•			♦									

IFRA: International Fragrance Association

Chemical is on the IFRA List (2022)

♦ Association supported by peer-reviewed literature

PBT: Persistent, Bioaccumulative, & Toxic

					сн	RONIC HEA	LTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name	IFRA	Cancer	Mammary	Endocrine	Health Out Greater Co Black V	oncern to	Reproductive/ Developmental	Neurotoxicity	РВТ	Chronic Aquatic	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant
						Diabetes	Obesity							
99-87-6	p-Cymene	•									GHS 411		GHS 315	GHS 319
109-52-4	Pentanoic acid	•									GHS 412		GHS 314	
52645-53-1	Permethrin										GHS 410			
8009-03-8	<u>Petrolatum</u>							GHS 361d			GHS 413			
25973-55-1	Phenol, 2-(2H-benzotriazol- 2-yl)-4,6-bis(1,1- dimethylpropyl)- (UV-328)	•									GHS 411 GHS 412			
143-74-8	phenolsulfonphthalein				\$									
87-22-9	Phenylethyl salicylate	•			♦						GHS 411		GHS 315	
144-55-8	Sodium Bicarbonate	•			\$									
1310-73-2	Sodium hydroxide	•									NZ GHS 9.1D		GHS 314	GHS 318
1948-33-0	TBHQ (2-tert- butylhydroquinone)	•									GHS 410		GHS 315	GHS 319
10378-23-1	tetrasodium EDTA										NZ GHS 9.1C			
89-83-8	Thymol	•									GHS 411	AOEC R	GHS 314	
1406-18-4	Tocopherol/Vitamin E				♦									
112-27-6	Triethylene glycol	•			\$								GHS 315	GHS 319
80-56-8	α-Pinene	•									GHS 410 GHS 411		GHS 315	GHS 318
n/a	Alkylphenols and Alkylphenol ethyoxylates													









TIER 3 ASTHMAGENS, ALLERGENS, & IRRITANTS

KEY CAS NUMBER: Chemical Abstracts Service Number

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Disclose all asthmagens, allergens, and irritants.

					СН	IRONIC HEALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGENS	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	РВТ	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
464-49-3	(+)-2-Bornanone	•									GHS 315	GHS 319	
7785-70-8	(1R)-2,6,6- Trimethylbicyclo[3.1.1] hept-2-ene	•									GHS 315	GHS 319	NZ GHS 9.1B
95-63-6	1,2,4-Trimethylbenzene	•									GHS 314 GHS 315	GHS 319	GHS 411 GHS 413
108-67-8	1,3,5-Trimethylbenzene	•									GHS 315	GHS 319	GHS 411
128-80-3	1,4-bis(p-Tolylamino) anthraquinone (Solvent Green 3; CI 61565) when used as a substance in hair dye products	•									GHS 315	GHS 319	GHS 413
112-30-1	1-Decanol	•									GHS 315	GHS 319	GHS 411
111-27-3	1-Hexanol	•									GHS 315	GHS 319	NZ GHS 9.1D
90-12-0	1-Methylnaphthalene	•								EU EC H334	GHS 315	GHS 319	GHS 411
71-41-0	1-Pentanol	•									GHS 315	GHS 318 GhS 319	NZ GHS 91.D
105-67-9	2,4-Dimethylphenol	•									GHS 314	GHS 318	GHS 411

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					СН	IRONIC HEALTH EFFE	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGENS	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	PBT	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
118-60-5	2-Ethylhexyl salicylate	•									GHS 315		GHS 413; Kunz et al., 2006
26172-55-4	3(2H)-Isothiazolone, 5-chloro-2-methyl-	•									GHS 314		GHS 410
13466-78-9	3-Carene	•								AOEC Rs	GHS 315		GHS 410 GHS 411 GHS 412
127-51-5	3-Methyl-4-(2,6,6-trimethyl- 2-cyclohexen-1-yl)-3-buten- 2-one; alpa-isomethyl ionone	•									EU Fragrance Allergen GHS 315	GHS 319	GHS 411 GHS 412
108-39-4	3-Methylphenol; m-Cresol	•									GHS 314	GHS 318	NZ GHS 9.1D
127087- 87-0	4-Nonylphenol, branched, ethoxylated	•							OPSAR PBT		GHS 315	GHS 319	GHS 410 GHS 411
98-29-3	4-tert-Butylpyrocatechol				♦						GHS 314	GHS 318	GHS 410 GHS 411
30007- 47-7	5-bromo-5-nitro-1,3-dioxane (Bronidox C)										GHS 314	GHS 318	NZ GHS 9.1A
541-85-5	5-Methyl-3-heptanone	•									GHS 315	GHS 319	
98-86-2	Acetophenone	•										GHS 319	
79-10-7	Acrylic Acid; carbomer									AOEC R	GHS 314	GHS 318	GHS 411
68551-12-2	Alcohol Ethoxylates (C12-16)										GHS 315	GHS 318	NZ GHS 9.1A
85507-69-3	aloe barbadensis leaf extract/ aloe vera		IARC Possible								GHS 315	GHS 319	
79-14-1	Alpha-hydroxy acids										GHS 314	GHS 318	NZ GHS 9.1D
77-92-9	Alpha-hydroxy acids	•									GHS 315	GHS 318 GHS 319	

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CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	PBT	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
98-55-5	alpha-Terpineol	•									GHS 315	GHS 319	GHS 413
1336-21-6	Ammonium Hydroxide									AOEC Rr & Rs	GHS 314	GHS 318	GHS 411
122-40-7	Amyl cinnamal	•									EU Fragrance Allergen GHS 315		GHS 411
105-13-5	Anisyl alcohol	•									EU Fragrance Allergen GHS 315	GHS 319	
8001-54-5	Benzalkonium chloride; Alkyl Benzyl Dimethyl Ammonium Chloride Mixture									AOEC Rs	GHS 314	GHS 318	NZ GHS 9.1A GHS 410
65-85-0	Benzoic acid	•			♦						GHS 315	GHS 318	GHS 412
118-61-6	Benzoic acid, 2-hydroxy-, ethyl ester	•									GHS 315	GHS 319	
140-11-4	Benzyl Acetate	•									GHS H315	GHS 6.4A	GHS 401
100-51-6	Benzyl alcohol	•									EU Fragrance Allergen GHS 315	GHS 318 GHS 319	
120-51-4	Benzyl Benzoate	•									EU Fragrance Allergen		GHS 411 GHS 412
103-41-3	Benzyl cinnamate	•									EU Fragrance Allergen		GHS 411
127-91-3	beta-Pinene	•									EU Fragrance Allergen GHS 315	GHS 319	GHS 410
92-52-4	Biphenyl	•									GHS 315	GHS 319	GHS 410
56-18-8	bis-aminopropyl dimethicone										GHS 314	GHS 318	
123-72-8	Butanal	•										GHS 319	NZ GHS 9.1D

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					СН	RONIC HEALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN:	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	PBT	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
106-97-8	Butane										EU Fragrance Allergen		
105-54-4	Butanoic acid, ethyl ester	•									GHS 315	GHS 319	NZ GHS 9.1C
1305-62-0	Calcium Hydroxide										GHS 315	GHS 318	NZ GHS 9.1D
79-92-5	Camphene	•										GHS 319	GHS 410
76-22-2	Camphor	•									GHS 315	GHS 319	GHS 411
55406- 53-6	Carbamic acid, butyl-, 3-iodo-2-propynyl ester				\$						GHS 315	GHS 318	GHS 410
87-44-5	Caryophyllene	•									GHS 315	GHS 319	GHS 413
104-55-2	Cinnamal	•			\$						EU Fragrance Allergen GHS 315	GHS 319	NZ GHS 9.1A
104-54-1	Cinnamyl alcohol	•									EU Fragrance Allergen GHS 315	GHS 319	
106-22-9	Cirtonellol; citral citronellol	•									EU Fragrance Allergen GHS 315	GHS 319	GHS 411
5392-40-5	Citral	•									EU Fragrance Allergen GHS 315	GHS 319	GHS 412
8014-17-3	Citrus reticulata leaf oil	•									GHS 315	GHS 318 GHS 319	GHS 410 GHS 411
91-64-5	Coumarin	•									EU Fragrance Allergen GHS 315	GHS 318	GHS 411 GHS 412
98-52-2	Cyclohexanol, 4-(1,1-dimethylethyl)-	•			\$							GHS 319	
5989-54-8	Cyclohexene, 1-methyl-4- (1-methylethenyl)-, (S)-	•									GHS 315		GHS 410

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					СН	IRONIC HEALTH EFFE	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGEN	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	PBT	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
586-62-9	Cyclohexene, 1-methyl-4- (1-methylethylidene)-; Terpinolene	•									GHS 315	GHS 318	GHS 410 GHs 411
112-31-2	Decanal	•									GHS 315	GHS 319	GHS 412
107-64-2	Distearyldimonium Chloride											GHS 318	GHS 410
64742-46-7	Distillates (petroleum), hydrotreated middle	•									GHS 315		GHS 411 GHS 412
5989-27-5	d-Limonene; limonene	•									EU Fragrance Allergen GHS 315		GHS 410 GHS 412
112-54-9	Dodecanal	•									GHS 315	GHS 319	GHS 411
141-43-5	Ethanolamine (Monoethanolamine)	•				*					GHS 314	GHS 318 GHS 319	GHS 412
97-63-2	Ethyl methacrylate	•								AOEC R	GHS 315	GHS 319	
70445-33-9	Ethylhexylglycerin Polysilicone-11	•										GHS 318	GHS 412
8000-48-4	Eucalyptus oil	•								AOEC R	GHS 315	GHS 319	GHS 411
97-53-0	Eugenol	•									EU Fragrance Allergen GHS 315	GHS 319	NZ GHS 9.1C
4602-84-0	Farnesol	•									EU Fragrance Allergen GHS 315	GHS 319	GHS 410
2783-94-0	Fd&C Yellow 6	•			♦						GHS 315	GHS 319	
64-18-6	Formic Acid	•									GHS 314 GHs 315	GHS 318 GHS 319	GHS 413
106-24-1	Geraniol	•									EU Fragrance Allergen GHS 315	GHS 318	

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					сн	IRONIC HEALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGENS	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	PBT	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
111-30-8	Glutaral								GHS H400		GHS H334	GHS H314	
56-81-5	Glycerin	•									GHS 315	GHS 319	
6915-15-7	Glycolic acid										GHS 315	GHs 318 GHS 319	
9036-19-5	Glycols, polyethylene, mono((1,1,3,3-tet = Poly (oxy-1,2-ethanediyl), .alpha [(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	•							EU SVHC PBT		GHS 315	GHS 319	NZ GHS 9.1A
123-68-2	Hexanoic acid, 2-propenyl ester	•									GHS 315	GHS 319	GHS 411
107-41-5	hexylene glycol	•									GHS 315		
107-75-5	Hydroxycitronellal Octanal, 7-hydroxy-3,7- dimethyl-	•									EU Fragrance Allergen GHS 315	GHS 319	NZ GHS 9.1D
120-72-9	Indole	•			♦						GHS 315	GHS 318	NZ GHS 9.1A
37205-87-1	Isononylphenol-ethoxylate								OPSAR PBT		GHS 315	GHS 318 GHS 319	GHS 410 GHS 411 GHS 412 GHS 413
55965- 84-9	Isothiazolinone Chloride	•									GHS 314	GHS 318	GHS 410
50-21-5	Lactic acid	•									GHS 314 GHS 315	GHS 318 GHS 319	
8007-48-5	Laurus nobilis L., oil from the seeds of	•									GHS 315	GHS 319	GHS 411
2216-51-5	Levomenthol	•									GHS 315	GHS 318 GHS 319	NZ GHS 9.1C
138-86-3	Limonene	•									GHS 315	GHS 319	GHS H410

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					СН	IRONIC HEALTH EFFEC	CTS			EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGENS	S, ALLERGENS	& IRRITANTS
CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	РВТ	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
78-70-6	Linalool	•									EU Fragrance Allergen GHS 315	GHS 319	
89-78-1	menthol	•								AOEC R	GHS 315	GHS 318 GHS 319	NZ GHS 9.1D
134-20-3	Methyl anthranilate	•									GHS 315	GHS 319	NZ GHS 9.1B
111-12-6	Methyl heptine carbonate; 2-Octynoic acid; methyl ester	•									EU Fragrance Allergen GHS 315		
85-91-6	Methyl N-methyl anthranilate	•									GHs 315	GHS 319	GHS 412
2682-20-4	methylisothiazolinone	•									GHS 314	GHS 318	GHA 410
8012-95-1 8042-47-5 , plus several dozen other CAS numbers related to petroleum products	Mineral oils Mineral oils, untreated and mildly treated										GHS 315	GHS 319	GHS 411
64741-65-7	Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha	•									GHS 315	GHS 319	GHS 410 GHS 411
334-48-5	n-Decanoic acid; Ethanol, 2-butoxy-	•			\$						GHS 315	GHS 319	GHS 412
57-10-3	n-Hexadecanoic acid	•				*					GHS 315	GHS 319	GHS 412
112-05-0	Nonanoic acid	•									GHS 314 GHS 315	GHS 318 GHS 319	GHS 412
101-86-0	Octanal, 2-(phenylmethylene)-: Hexyl Cinnamal; hexyl cinnamaldehyde	•									EU Fragrance Allergen GHS 315		
150-13-0	Para-aminobenzoic acid (PABA)										GHS 315	GHS 319	

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			CHRONIC HEALTH EFFECTS							EMERGING & HARMFUL TO THE ENVIRONMENT	ASTHMAGENS, ALLERGENS & IRRITANTS		
CAS Number	Chemical Name (BCPP Red List)	IFRA	Cancer	Mammary	Endocrine	Health Outcomes of Greater Concern to Black Women	Reproductive/ Developmental	Neurotoxicity	РВТ	Respiratory/ Asthmagens	Skin Irritation	Eye Irritant	Chronic Aquatic
						Diabetes							
99-87-6	p-Cymene	•									GHS 315	GHS 319	GHS 411
109-52-4	Pentanoic acid	•									GHS 314		GHS 412
122-99-6	Phenoxyethanol	•									GHS 315	GHS 319	
87-22-9	Phenylethyl salicylate	•			\$						GHS 315		GHS 411
69-72-7	Salicylic acid	•										GHS 318	NZ GHS 9.1D
1310-73-2	Sodium hydroxide	•									GHS 314	GHS 318	NZ GHS 9.1D
7681-57-4	Sodium Metabisulfite	•								AOEC Rs		GHS 318	
7664-93-9	Sulfuric Acid	•								AOEC Rr	GHS 314	GHS 318	
1948-33-0	TBHQ (2-tert- butylhydroquinone)	•									GHS 315	GHS 319	GHS 410
97-99-4	Tetrahydrofurfuryl alcohol											GHS 319	
89-83-8	Thymol	•								AOEC R	GHS 314		GHS 411
112-27-6	Triethylene glycol	•			\$						GHS 315	GHS 319	
80-56-8	α-Pinene	•									GHS 315	GHS 318	GHS 410 GHS 411