



H&M GROUP CHEMICAL RESTRICTIONS 2019

RESTRICTED SUBSTANCES LIST (RSL)

Cosmetic Products

Global Product Compliance Department Valid for all brands in the H&M Group.



Table of Contents

1. General.....	2
2. Commitment	3
3. Examples	4
4. Definitions	6
5. Abbreviations	7
6. Requirements – All Cosmetic Products.....	8
7. Restrictions per Formula.....	9
7.1 Impurities	9
7.1.1 For All Countries.....	9
7.1.2 For South Korea	9
7.2 Ingredients	10
7.2.1 For All Countries.....	10
7.2.2 Additional Restrictions for Products to Malaysia	25
7.2.3 Additional Restrictions for Products to South Korea	26
7.2.4 Additional Restrictions for Products to USA	27
7.2.5 Additional Restrictions for Children Cosmetic Products to USA.....	27
8. Limitations of Volatile Organic Compounds (VOCs) for Cosmetic Products in the USA and Canada	28
9. Permitted Colorants in Cosmetic Products.....	37
10. Permitted UV Filters in Cosmetic Products.....	42
11. Permitted Preservatives in Cosmetic Products.....	43
12. Test Methods and Reporting Limits for Cosmetic Products	47
13. Version History.....	48

1. General

H&M group has with concern for the health of customers as well as for the environment and working conditions, established H&M Chemical Restrictions for all products.

H&M Chemical Restrictions covers the Manufacturing Restricted Substance List and the Restricted Substance Lists. The Restricted Substance Lists consists of 11 stand-alone parts which are divided on product type; Packaging, Apparel/Accessories/Footwear/Home Interior Textile Products, Cosmetic Products, Food Contact Products, Candles, Hardline, Chemical Products, Toys, Electrical and Electronic Products and Batteries, Medical Devices and Aerosols Dispensers.

Always follow all relevant latest parts of H&M Chemical Restrictions.

The official and valid version of this document is in English. Any translation of the document is prepared for reference only. H&M accepts no liability for any mistakes done in the translation.

All chemical requirements, restrictions and test methods for cosmetic products are found in H&M Chemical Restrictions for Cosmetic Products. If the product is sold in a packaging, then the package must also comply with H&M Chemical Restrictions for Packaging. A cosmetic formulation in an aerosol container must also comply with the requirements for Aerosol Dispensers. A child appealing package may also be classified as a Toy and must then comply with H&M Chemical Restrictions for Toys.

In addition to this part of the H&M Chemical Restrictions, production of Cosmetic Products must also fulfill H&M Chemical Restrictions regarding the Manufacturing Restricted Substance List (MRSL).

Each limit in H&M Chemical Restrictions is valid for homogeneous parts of the concerned product if not otherwise stated.

Relevant test methods are specified in each part of the H&M Chemical Restrictions. In case of undated test method, the latest version is valid.

2. Commitment

By accepting H&M Standard Purchase Conditions, the Supplier commits to comply with H&M Chemical Restrictions. It is the Supplier's responsibility to assure compliance with H&M Chemical Restrictions and to inform all their upstream suppliers and subcontractors about the content of H&M Chemical Restrictions.

By accepting H&M Standard Purchase Conditions, each Supplier acknowledges that H&M reserves the right to:



- *Inspect and test any product, any part of production and/or packaging, by any listed or appropriate method, at any time or at any stage of production.*
- *Cancel the Order, or, if the products are already delivered, return the products to the Supplier if the product, production and/or packaging do not correspond to the H&M Chemical Restrictions.*
- *Hold the Supplier responsible for any damage caused by the ordered product if the product, production and/or packaging do not correspond to the H&M Chemical Restrictions.*
- *Receive the Safety Data Sheets (SDS) for all substances and preparations (dyes, colorants, solvents, chemicals etc.) used in the production of a specific Order.*

In the case of contradictory test results, H&M test results will prevail.

3. Examples

All details on the product must comply with H&M Chemical Restrictions, see examples below. The examples do not claim to be complete.

	<p style="text-align: center;">Cosmetic Products</p> <ul style="list-style-type: none"> ➤ Lip gloss <ul style="list-style-type: none"> - Lip gloss content: Follow restrictions in H&M Chemical Restrictions for Cosmetic Products. - Lid and bottle: Follow restrictions in H&M Chemical Restrictions for Packaging. ➤ Wet wipes, face mask <ul style="list-style-type: none"> - Cosmetic content: Follow restrictions in H&M Chemical Restrictions for Cosmetic Products. - The material (e.g., non-woven material) integrated with the cosmetic content: Follow restrictions in H&M Chemical Restrictions for Apparel, Accessories, Footwear & Home Interior Textile Products.
	<p style="text-align: center;">Child Appealing and Children Cosmetic</p> <ul style="list-style-type: none"> ➤ Lip balm <ul style="list-style-type: none"> - Lip balm content: Follow restrictions in H&M Chemical Restrictions for Cosmetic Products. - Lid and bottle: Follow restrictions in H&M Chemical Restrictions for Packaging. - Lid and bottle could also be classified as toy: Follow restrictions in H&M Chemical Restrictions for Toys.

	<p style="text-align: center;">Aerosol Dispensers</p> <ul style="list-style-type: none"> ➤ Cosmetic product in aerosol dispenser <ul style="list-style-type: none"> - Follow restrictions in H&M Chemical Restrictions for Cosmetic Products. - Follow restrictions in H&M Chemical Restrictions for Aerosol Dispensers. - Follow restrictions in H&M Chemical Restrictions for Packaging.
	<p style="text-align: center;">Accessories (e.g., make-up tools)</p> <ul style="list-style-type: none"> ➤ Accessories (e.g., make-up tools) <ul style="list-style-type: none"> - Follow restrictions in H&M Chemical Restrictions for Apparel, Accessories, Footwear & Home Interior Textile Products.

4. Definitions

Concentration Limit	The substance must not be present in the product at concentrations above this limit.
Children Cosmetic Products	Cosmetic products intended for children (age 0-14). Products can be used by children, or used by an adult on children.
Exposure Limit	The substance must not be present in the finished product at concentrations which will result in customer exposure above the limit; at normal and reasonable foreseeable use of the product.
Guidance Limit	If the substance is present in the product at a concentration above this limit, then the toxicological safety evaluation must explicitly secure that this specific concentration is safe under normal and reasonable foreseeable use of the product.
High Volatile Organic Compound (HVOC)	HVOC is any organic compound that exerts a vapour pressure greater than 80 mm Hg at 20°C.
Homogeneous	Uniform composition throughout, <i>i.e.</i> a material that cannot be mechanically disjointed into different materials.
Medium Volatile Organic Compound (MVOC)	MVOC is any organic compound that exerts a vapour pressure greater than 2 mm Hg and less than or equal to 80 mm Hg when measured at 20°C.
Not Detected	The substance must not be present in the finished product at concentrations above the analytical reporting limit.
Usage ban	The substance must not be used in production and it must not be added to the product. ¹
VOC	Volatile organic compounds (VOC) means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions.

¹ Impurities at low concentrations of these substances may be accepted only if technically unavoidable due to e.g. raw materials, formation in the manufacturing process, storage or packaging.

5. Abbreviations

CAS number	Chemical Abstracts Service number, an identification number for chemicals in this database.
CFR	Code of Federal Regulations
cfu	Colony forming units. The content of bacteria, mould and yeast in a product is measured by counting the number of colonies formed in the sample. This is the unit for this counting.
CI no	Colour Index number
GMP	Good Manufacturing Practice
HVOC	High Volatile Organic Compound
MVOC	Medium Volatile Organic Compound
PDRC	H&M Production and Documentation Requirements for Cosmetic products
ppm	Parts per million, which is the same as mg/kg.
Percentage	Percentage is weight by weight, % w/w
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
VOCs	Volatile Organic Compounds

6. Requirements – All Cosmetic Products

Requirement/Restricted substance	Limit/Requirement
EU Cosmetic Regulation ²	All cosmetic products must comply with the EU Cosmetic Regulation.
Cosmetic Ingredients - Requirements for Approval³ Ingredients of the cosmetic formula must fulfil the purity requirements and other specifications given in the Cosmetic Ingredients - Requirements for Approval.	
H&M Production and Documentation Requirements for Cosmetic products³(PDRC) Production must follow H&M PDRC which includes requirements for: good manufacturing practices (GMP), ingredients lists, stability testing, sun protection factor testing, product information file (PIF) with cosmetic product safety report (CPSR), and REACH reporting. The H&M RSL and the cosmetic product safety must always be considered in combination to secure that each substance (ingredient or impurity) concentration is below both the RSL limit and is evaluated as safe for the specific product type.	
Microbiological Quality For products specifically intended to be used in the eye area ⁴ , on mucous membranes ⁵ , or for children under 3 years of age and for products with non-woven material integrated with the formulation, for example wet wipes:	
Total viable count for aerobic mesophilic microorganisms (ISO 21149)	< 100 CFU/g or CFU/ml
Pseudomonas aeruginosa (ISO 22717)	Not detected
Staphylococcus aureus (ISO 22718)	
Candida albicans (ISO 18416)	
For other products than those specified above:	
Total viable count for aerobic Mesophilic microorganisms (ISO 21149)	< 1000 CFU/g or CFU/ml
Pseudomonas aeruginosa (ISO 22717)	Not detected
Staphylococcus aureus (ISO 22718)	
Candida albicans (ISO 18416)	
Colorants	The only colorants permitted are listed in 9. <i>Permitted Colorants in Cosmetic products.</i>
UV filters in cosmetic products	The only UV filters ⁶ permitted are listed in 10. <i>Permitted UV filters in Cosmetic Products.</i>
Preservatives	The only preservatives permitted are listed in 11. <i>Permitted Preservatives in Cosmetic products.</i>
A product consisting only of solid material is a cosmetic product	If the solid material could be part of a cosmetic a cosmetic formula (as an ingredient) and it is applied as a cosmetic product, and fulfils the function and the application site as defined in the EU Cosmetic Regulation.

² Regulation (EC) No 1223/2009 on cosmetic products.

³ Download the document at H&M group Supplier Portal.

⁴ Eye area includes eye lid, eye lashes, and the area below the eye down to the cheek bone.

⁵ Mucous membranes include the intimate/genital area and the oral cavity of the mouth.

⁶ UV filters have the function to protect the skin. This restriction does not apply to UV absorbers which protect the formula.

7. Restrictions per Formula

7.1 Impurities

7.1.1 For All Countries

Restricted substance <i>CAS number</i>	Limit/Requirement
Antimony (Sb), total amount 7440-36-0	
In products containing polyester ingredient	Polyester ingredient: $\leq 260 \text{ ppm}^7$ + Formula without polyester ingredient: 5 ppm^8
In all other types of products	5 ppm^8
Arsenic (As), total amount 7440-38-2	3 ppm
Cadmium (Cd), total amount 7440-43-9	3 ppm
Chromium VI (Cr^{6+}) 18540-29-9	Not detected
Cobalt (Co), total amount 7440-48-4	10 ppm^8
Formaldehyde releasers⁹ Various, i.e. some preservatives	
In rinse-off products where formaldehyde is originated from Formaldehyde releasers ⁹	$< 0.05\%$ (500 ppm) free or possible release of formaldehyde (calculated content)
Formaldehyde 50-00-0	
In all products except where originated from Formaldehyde releasers, total content of formaldehyde	Not detected
Lead (Pb), total amount 7439-92-1	5 ppm
Mercury (Hg), total amount 7439-97-6	1 ppm
Nickel (Ni), total amount 7440-02-0	10 ppm^8

7.1.2 For South Korea

Restricted substance <i>CAS number</i>	Limit/Requirement
Antimony and its compounds, total amount 7440-36-0	10 ppm

⁷ For 100% polyester the total Sb limit applies, as H&M Chemical Restrictions for Apparel/Accessories/Footwear/Soft Home Interior Products. The limit of Sb in the cosmetic product is proportionally lowered in relation to the polyester content, e.g. 50% polyester ingredient = Sb limit 130 ppm in the cosmetic product.

⁸ Guidance Limit.

⁹ Formaldehyde releasers are e.g. 2-Bromo-2-Nitropropane-1,3-Diol (52-51-7), Diazolidinyl Urea (78491-02-8), DMDM Hydantoin (6440-58-0), Imidazolidinyl Urea (39236-46-9).

7.2 Ingredients

7.2.1 For All Countries

Restricted substance <i>CAS number</i>	Limit/Requirement
Acetylcysteine 616-91-1	Usage ban
Acetylsalicylic acid 50-78-2	Usage ban
Acetaldehyde 75-07-0	Usage ban
Acetonylacetone 110-13-4	Usage ban
Alkali sulphides and alkaline earth sulphides <i>various</i>	Usage ban
Allylanisole 140-67-0	Usage ban
Aloe Vera, non-Decolorized Whole Leaf Extract ¹⁰ <i>various</i>	Usage ban
Alpha-hydroxy acids (AHAs) AHAs including, but not limited to:	
Alpha-hydroxycaprylic acid -	10%, with a pH ≥3.5. Preparations intended to be diluted in bath water may contain levels of citric acid exceeding 10%.
Alpha-hydroxyethanoic acid + Ammonium alpha-hydroxyethanoate -	
Alpha-hydroxyoctanoic acid -	
Alpha hydroxy and botanical complex -	
Citric acid 77-92-9, 5949-29-1	
Glycolic acid 79-14-1	
Glycolic acid + Ammonium glycolate 79-14-1, 35249-89-9	
Glycomer in cross-linked fatty acids alpha-nutrium -	
Hydroxycaprylic acid 617-73-2	
Lactic acid 50-21-5	
L-alpha hydroxy acid -	
Malic acid 97-67-6	
Mixed fruit acid -	
Tri-alpha hydroxy fruit acids -	
Triple fruit acid -	
In all products (including skin products without SPF)	≥3% specific label requirements ¹¹
Skin products without SPF	2.5% - 10% Interval with specific label requirements ¹¹

¹⁰ Aloe Vera, non-decolorized whole leaf extract consists of the liquid portion of the Aloe vera leaf and is a natural constituent of the Aloe Barbadensis Miller plant

¹¹ Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information, see the H&M document "Labelling requirements for cosmetic products" – for H&M internal use only, not available for suppliers.

Restricted substance CAS number		Limit/Requirement
Aluminium chloride 7446-70-0		
≤ 15% calculated as aluminium chloride hexahydrate. Not permitted in combinations with aluminium chlorohydrate or its associated complexes or aluminium zirconium complexes.		
In deodorant and antiperspirant, not in aerosol dispensers		Must be in the form of an aqueous solution. Specific label requirements ¹²
In deodorant and antiperspirant, in aerosol dispensers		Usage ban
Aluminium chlorohydrate, and its associated complexes Various, e.g.:		
Including but not limited to:		
Aluminium chlorohydrate 12042-91-0		≤ 25% calculated as the anhydrous form. Not permitted in combination with aluminium chloride, other aluminium chlorohydrate complexes or aluminium zirconium complexes.
Aluminium chlorohydrate PEG 242812-76-6		
Aluminium chlorohydrate PG 245090-52-2		
Aluminium dichlorohydrate 10284-64-7		
Aluminium dichlorohydrate PEG 242812-79-9		
Aluminium dichlorohydrate PG 245090-53-3		
Aluminium sesquichlorohydrate 11089-92-2		
Aluminium sesquichlorohydrate PEG 242812-86-8		
Aluminium sesquichlorohydrate PG 245090-60-2		
In deodorant and antiperspirant		Specific label requirements ¹²
In aerosol dispenser		Specific label requirements ¹²
Aminophylline 317-34-0		Usage ban
Ammonia 7664-41-7 / 1336-21-6		5%
Amylvinylcarbinyl acetate 2442-10-6		0.3%
Arachis hyogaea (peanut) oil/extracts 8002-03-7		Usage ban
Areca catechu seed extract 89957-52-8		Usage ban
Azelaic acid 123-99-9		Usage ban
Benzophenone 119-61-9		Usage ban
Benzoyl peroxide 94-36-0		Usage ban
BHA 25013-16-5		4.0 mg/day ¹³
Bimatoprost 155206-00-1		Usage ban
Bismuth citrate 813-93-4		Usage ban

¹² Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information, see the H&M document "Labelling requirements for cosmetic products" – for H&M internal use only, not available for suppliers.

¹³ Exposure limit.

Restricted substance CAS number	Limit/Requirement
Bismuth subgallate 99-26-3	Usage ban
Bismuth subnitrate 1304-85-4	Usage ban
Bispyrithione 3696-28-4	Usage ban
Boric acid 11113-50-1	Usage ban
Bromate (BrO₃⁻) Various	Usage ban
Caffeic acid 331-39-5	Usage ban
Calcium Hydroxide 1305-62-0	
Hair straightening products	7%
Other products	Usage ban
Camphor 76-22-2/ 464-49-3	3%
Chloramine T 127-65-1	Usage ban
Chloramine T trihydrate 7080-50-4	Usage ban
Chlorhexidine and its salts Various, e.g.:	
Chlorhexidine 55-56-1	0.14%, calculated as chlorhexidine free base
Chlorhexidine diacetate 56-95-1	0.19%, calculated as chlorhexidine diacetate
Chlorhexidine digluconate 18472-51-0	0.20%, calculated as chlorhexidine digluconate
Chlorhexidine dihydrochloride 3697-42-5	0.16%, calculated as chlorhexidine dihydrochloride
Chloride salts of alkali metals 3811-04-9, 7775-09-9	3%
Chlorofluorocarbon propellants (halogenated alkanes) Various	Usage ban
Chlorohydroxy-aluminum allantoinate (Alcloxa)	1%
Cinnamyl anthranilate 87-29-6	Usage ban
Citrus reticulata leaf oil 8014-17-3 / 8008-31-9	
In leave-on products	0.1%
Cloflucarban 369-77-7	Usage ban
Cocamide DEA 68603-42-9	Usage ban
Colophonium 8050-09-7	Usage ban
Cyanoacrylate Various, e.g.: Ethyl cyanoacrylate 7085-85-0, Isopropyl cyanoacrylate 10586-17-1, Methyl cyanoacrylate 137-05-3	
In adhesives for nail application	Specific label requirements ¹⁴
In all other product types	Usage ban

¹⁴ Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information, see the H&M document "Labelling requirements for cosmetic products" – for H&M internal use only, not available for suppliers.

Restricted substance CAS number	Limit/Requirement
Cyclopentasiloxane 541-02-6	
Body lotion	Usage ban
In rinse-off products	0.1%
Inhalable leave-on products (spray-, aerosol-, powder forms)	1%
Inhalable rinse-off products (spray-, aerosol-, powder forms)	0.1%
Cyclotetrasiloxane 556-67-2	Usage ban
Cysteine 52-90-4	Usage ban
Cysteine HCl 52-89-1	Usage ban
α-Damascone (Cis-Rose-ketone-1) 23726-94-5 / 43052-87-5	0.02%
cis-beta-Damascone 23726-92-3	0.02%
Dequalinium chloride 522-51-0	Usage ban
Dichloromethane (Methylene chloride) 75-09-2	Usage ban
Dichlorophene 97-23-4	Usage ban
Diethylhexyl adipate 103-23-1	
In leave-on products	6%
Diethyl phthalate 84-66-2	
In child appealing and children cosmetic products	0.1%
Diethyl toluamide (DEET) 134-62-3 / 26545-51-7	Usage ban
Dimethyltolylamine 99-97-8	Usage ban
Dipropyl pyridinedicarboxylate 136-45-8	Usage ban
Disodium 5-amino-4-hydroxy-3-(phenylazo) naphthlene-2,7-disulphonate 3567-66-6	3.0%
D-Pulegone 89-82-7	Usage ban
Ethylbenzene 100-41-4	Usage ban
Ethyl lauroyl arginate hydrochloride 60372-77-2	
When used for other purposes than as a preservative	
In all products	0.8%
Ethyl methacrylate 97-63-2	Usage ban
Eucalyptus oil 8000-48-4	25%
Formaldehyde 50-00-0	
In all products except where originated from Formaldehyde releasers, total content of formaldehyde	Usage ban

Restricted substance CAS number	Limit/Requirement
Formaldehyde releasers¹⁵ Various, i.e. some preservatives	
In leave-on products	Usage ban
Fragrance allergens Various, see EU Cosmetic Regulation As defined in EU Cosmetic Regulation ¹⁶	
The calculation of the concentration of the fragrance allergens shall take into account all possible sources of the fragrance allergens, i.e. not only the perfume and/or the aroma can contribute to the concentration of them. Possible other sources include, but are not limited to, ingredients, herbal extracts and essential oils.	
In deodorants and antiperspirants aimed to be used under arms	0 fragrance allergens to be labelled on product.
In child appealing and children cosmetic products	0 fragrance allergens to be labelled on product.
2,4-Hexadienal 142-83-6	Usage ban
2-Hexylidene cyclopentanone 17373-89-6	0.06%
Hydrastis Canadensis extract/root extract/powder 84603-60-1	Usage ban
Hydrolyzed carrageenan 53973-98-1	Usage ban
p-Hydroxyanisole 150-76-5	Usage ban
Iris florentina root 90045-89-9	Usage ban
Laureth-8 9002-92-0 / 3055-98-9	2%
Laureth-9 3055-99-0 / 9002-92-0 / 68439-50-9	2%
Laureth-10 9002-92-0 / 6540-99-4 / 68002-97-1	2%
Lithium carbonate 554-13-2	Usage ban
Lithium hydroxide 1310-65-2	
Hair straightening products	4.5%
Other products	Usage ban
Melaleuca alternifolia leaf oil/extract/powder/water (tea tree) 85085-48-9	
In oral hygiene products	0.2%
In child appealing and children cosmetic products	Usage ban
In all types of products except oral hygiene products or child appealing and children cosmetic products	2%

¹⁵ Formaldehyde releasers are e.g. 2-Bromo-2-Nitropropane-1,3-Diol (52-51-7), Diazolidinyl Urea (78491-02-8), DMDM Hydantoin (6440-58-0), Imidazolidinyl Urea (39236-46-9).

¹⁶ Regulation (EC) No 1223/2009 on cosmetic products.

Restricted substance CAS number	Limit/Requirement
Methacrylic acid 79-41-4	> 5% Limit with specific label requirements ¹⁷
Methyl alcohol 67-56-1	Usage ban
6-Methylcoumarin 92-48-8	Usage ban
Methyl eugenol (1,2-Dimethoxy-4-(2-propenyl)-benzene) 93-15-2	Usage ban
Methylheptadienone 1604-28-0	0.002%
Methyl methacrylate 80-62-6	Usage ban
Methyl n-methyl anthranilate 85-91-6 Constitutes the main part of Petitgrain Mandarin oil/Citrus reticulate leaf oil	0.1%
Methyl octyne carbonate 111-80-8	0.002% (when used in combination with methyl 2-octynoate, sum of concentration 0.01%)
Methyl 2-octynoate 111-12-6	0.01% (when used in combination with methyl-octyne carbonate, sum of concentration 0.01% (of which methyl octane carbonate should not be more than 0.002 %))
Methyl pyrrolidone 872-50-4	Usage ban
Methyl salicylate 119-36-8	1%
MIBK 108-10-1	Usage ban
Mixed cresols (and derivatives) 1319-77-3	Usage ban
Myrcene 123-35-3	Usage ban
Nanomaterials Various Nanomaterials for which Article 16 of EU Cosmetic Regulation 1223/2009 apply ¹⁸	Usage ban
N-chloro-p-toluenesulfonamide 144-86-5	Usage ban
Nitromethane 75-52-5	Usage ban
4-Nitro-o-phenylenediamine 99-56-9	Usage ban
2-Nitro-p-phenylenediamine 5307-14-2	Usage ban
Nitrous oxide 10024-97-2	Usage ban
Nonylphenol ethoxylates (NPE) and its degradation products Various	Usage ban
Octylphenol ethoxylates (OPE) and its degradation products Various	Usage ban
Oxyquinoline 148-24-3	Usage ban

¹⁷ Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information, see the H&M document "Labelling requirements for cosmetic products" – for H&M internal use only, not available for suppliers.

¹⁸ Article 16 does not apply to nanomaterials used as colorants, UV-filters or preservatives regulated under article 14, unless expressly specified.

Restricted substance CAS number	Limit/Requirement
Per- and Polyfluoroalkyl Substances (PFAS) Various, e.g.: Including but not limited to:	
Acrylates/methoxy PEG-23 methacrylate/perfluorooctyl ethyl acrylate copolymer -	Usage ban
Acrylates/perfluorohexylethyl methacrylate copolymer 1557087-30-5	
Acrylates/trifluoropropylmethacrylate/polytrimethyl siloxymethacrylate copolymer -	
Ammonium C6-16 perfluoroalkylethyl phosphate 65530-70-3, 65530-72-5, 65530-71-4	
Ammonium C9-10 perfluoroalkylsulfonate -	
Ammonium perfluorohexylethylphosphates -	
Ammonium perfluorooctane sulfonate/ammonium heptafluorooctanesulfonate 29081-56-9	
Amp-C8-18 perfluoroalkylethyl phosphate -	
Behenyl methacrylate/perfluorooctylethyl methacrylate copolymer -	
Butyl acrylate/C6-14 perfluoroalkylethyl acrylate/mercaptopropyl dimethicone copolymer -	
C20-28 alkyl perfluorodecylethoxy dimethicone -	
C4-14 perfluoroalkylethoxy dimethicone -	
C4-18 perfluoroalkylethyl thiohydroxypropyltrimonium chloride 70983-60-7	
C6-12 perfluoroalkylethanol -	
C6-14 perfluoroalkylethyl acrylate/hema copolymer -	
Dea-perfluorohexylethylphosphates -	
Decafluoropentane 138495-42-8	

Restricted substance CAS number	Limit/Requirement
Diethanolamine perfluorooctane sulfonate 70225-14-8	Usage ban
Diethylaminoethyl methacrylate/hema/perfluorohexylethyl methacrylate crosspolymer -	
Dioctyldodecyl fluoroheptyl citrate -	
Ethyl perfluorobutyl ether 163702-05-4	
Ethyl perfluoroisobutyl ether 163702-06-5	
Hexafluoropropylene/tetrafluoroethylene copolymer -	
Hydrofluorocarbon 134A 811-97-2	
Hydrofluorocarbon 227EA 431-89-0	
Isododecyl/perfluorononylethyl dimer dilinoleate/citrate -	
Isopropyl titanium triisostearate/perfluorooctyl triethoxysilane crosspolymer -	
Lithium perfluorooctane sulfonate / lithium heptadecafluorooctanesulfonate 29457-72-5	
Methyl perfluorobutyl ether 163702-07-6	
Methyl perfluoroisobutyl ether 163702-08-7	
PEG-10 acrylate/perfluorohexylethyl acrylate copolymer -	
PEG-10 nonafluorohexyl dimethicone copolymer -	
PEG-12 dimethicone/bis-isobutyl PPG-20 crosspolymer -	
Perfluoro dimethylethylpentane 502858-18-2	
Perfluoro t-butylcyclohexane 84808-64-0	
Perfluoroalkylsilyl mica -	
Perfluorobutylcyclohexane 374-60-7	
Perfluorocaprylyl bromide 423-55-2	
Perfluorocaprylyl triethoxysilylethyl methicone -	
Perfluorocyclohexylmethanol 28788-68-3	
Perfluorodecalin 306-94-5	
Perfluorodimethylcyclohexane 335-27-3	

Restricted substance CAS number	Limit/Requirement
Perfluoroheptane 335-57-9	Usage ban
Perfluorohexane 355-42-0	
Perfluorohexyl ethylphosphonic acid 252237-40-4	
Perfluorohexylethyl dimethylbutyl ether 210896-25-6	
Perfluoroisohexane 355-04-4	
Perfluoromethylcyclohexane 355-02-2	
Perfluoromethylcyclopentane 1805-22-7	
Perfluoromethyldecalin 51294-16-7	
Perfluorononyl dimethicone -	
Perfluorononyl dimethicone/methicone/amodimethicone crosspolymer -	
Perfluorononyl octyldodecyl glycol grapeseedate -	
Perfluorononyl octyldodecyl glycol meadowfoamate -	
Perfluorononylethyl carboxy PEG-7 dimethicone phosphate -	
Perfluorononylethyl carboxydecyl behenyl dimethicone -	
Perfluorononylethyl carboxydecyl hexacosyl dimethicone -	
Perfluorononylethyl carboxydecyl lauryl dimethicone -	
Perfluorononylethyl carboxydecyl lauryl/beheryl dimethicone -	
Perfluorononylethyl carboxydecyl PEG-10 dimethicone -	
Perfluorononylethyl carboxydecyl PEG-8 dimethicone -	
Perfluorononylethyl dimethicone/methicone copolymer -	
Perfluorononylethyl PEG-8 dimethicone -	
Perfluorononylethyl PEG-8 phenylisopropyl dimethicone -	
Perfluorononylethyl stearyl dimethicone -	

Restricted substance CAS number	Limit/Requirement
Perfluorooctanesulfonic acid / heptadecafluorooctanesulfonic acid 1763-23-1	Usage ban
Perfluorooctyl triethoxysilane 51851-37-7	
Perfluorooctylethyl triethoxysilane 101947-16-4	
Perfluorooctylethyl trimethoxysilane 83048-65-1	
Perfluorooctylethyl trisiloxane 163921-85-5	
Perfluorooctylethyl/diphenyl dimethicone copolymer -	
Perfluoroperhydrobenzyl tetralin 116265-66-8	
Perfluoroperhydrofluorene 307-08-4	
Perfluoroperhydrophenanthrene 306-91-2	
Perfluorotetralin 2342-07-06	
Polyacrylate-37 -	
Polyperfluoroethoxymethoxy difluoroethyl PEG diisostearate -	
Polyperfluoroethoxymethoxy difluoroethyl PEG ether 162492-15-1, 88645-29-8	
Polyperfluoroethoxymethoxy difluoroethyl PEG ether diisostearate -	
Polyperfluoroethoxymethoxy difluoroethyl PEG phosphate -	
Polyperfluoroethoxymethoxy difluorohydroxyethyl ether -	
Polyperfluoroethoxymethoxy difluoromethyl distearamide/ tribehenin PEG-20 esters 220207-10-3	
Polyperfluoroethoxymethoxy difluoromethyl ether 161075-02-1	
Polyperfluoroethoxymethoxy peg-2 phosphate 162567-74-0	
Polyperfluoroisopropyl ether -	
Polyperfluoromethylisopropyl ether 69991-67-9	
Polyperfluoroperhydrophenanthrene 159182-00-0	
Polytetrafluoroethylene acetoxypentyl betaine 123171-68-6	
Polysilicone-7 146632-08-8	

Restricted substance CAS number	Limit/Requirement
Polysilicone-10 -	Usage ban
Polyurethane-26 328389-90-8	
Polyurethane-27 328389-91-9	
Polyacrylate-37 -	
Potassium perfluorohexyl ethylphosphate 1224952-82-2	
Potassium perfluorooctanesulfonate / potassium heptadecafluorooctane-1-sulfonate 2795-39-3	
PTFE 9002-84-0	
Sodium perfluorohexyl ethylphosphonate 1189052-95-6	
Stearyl methacrylate/perfluorooctylethyl methacrylate copolymer -	
TEA-C8-18 perfluoroalkylethyl phosphate -	
TEA-perfluorohexyl ethylphosphates -	
Tetrafluoropropene 29118-24-9	
Trifluoromethyl C1-4 alkyl dimethicone -	
Perillaldehyde 2111-75-3	0.10%
Phenacetin 62-44-2	Usage ban
Pheromones Various	Usage ban
Phthalates except diethyl phthalate (DEP, CAS number 84-66-2) Various, e.g.: Phthalates including, but not limited to:	
Di-isononyl phthalate (DINP) 28553-12-0	Usage ban
Diethylhexyl phthalate (DEHP) 117-81-7	
Di-n-octyl phthalate (DNOP) 117-84-0	
Di-iso-decyl phthalate (DIDP) 26761-40-0	
Butyl benzyl phthalate (BBP) 85-68-7	
Dibutyl phthalate (DBP) 84-74-2	
Piper methysticum extract (kawa kawa) 9000-38-8 / 84696-40-2	Usage ban
Plastic microbeads¹⁹	
In rinse off products, scrub- and peel products	Usage ban

¹⁹ Any solid plastic particle that is less than five millimeters in size

Restricted substance CAS number	Limit/Requirement
Propylene glycol t-butyl ether 57018-52-7	Usage ban
Prostaglandins and its synthetic derivatives incl. salts and esters	
Including but not limited to:	
Cyclopropylbimatoprost 1138395-12-6	Usage ban
Cyclopropylmethylbimatoprost 1138395-10-4	
Dechloro cyclopropylcloprostenolamide 1138395-11-5	
Dechloro cyclopropylmethylcloprostenolamide 1138395-09-1	
Dechloro dihydroxy difluoro ethylcloprostenolamide -	
Dechloro ethylcloprostenolamide 1005193-64-5	
Dehydrolatanoprost 130209-76-6	
Dihydroxypropyl dehydrolatanoprostamide -	
Dihydroxypropyl didehydrolatanoprostamide -	
Ethyl travoprostamide 1005193-64-5	
Isobutyl trifluoromethyl dechloro ethylcloprostenate -	
Isopropyl cloprostenate 157283-66-4	
Nortafluprost 209860-89-9	
Trifluoromethyl dechloro ethylcloprostenolamide 1005193-64-5	
Trifluoromethyl dehydrolatanoprost -	
Pueraria mirifica	Usage ban
Resmethrin 10453-86-8	Usage ban
Retinol (vitamin A) 68-26-8 / 11103-57-4 and its esters:	1% retinol equivalents ²⁰
Retinyl acetate 127-47-9	
Retinyl palmitate 79-81-2	
Rose ketone-3 57378-68-4	0.02%
Rose ketone-4 23696-85-7	0.02%

²⁰ Note the conversion factor between retinol and other retinol equivalents, e.g. 1.0% w/w retinol is equivalent to 1.15% w/w retinol acetate and to 1.83% w/w retinyl palmitate.

Restricted substance CAS number		Limit/Requirement
Salicylic acid 69-72-7		
When used for other purposes than as a preservative		
Products intended for children below 3 years		Usage ban
Other products		0.5%
Silver and its salts 7440-22-4 / various		
In all products		Specific label requirements ²¹
In mouthwash		0.04%
Sodium bromate 7789-38-0		< 600 mg ²²
Sodium o-phenylphenate 132-27-4		Usage ban
Sodium picramate 831-52-7		0.1%
Strontium compounds Various, e.g.:		
Including but not limited to:		
Strontium Acetate and its hemihydrate	543-94-2	Usage ban
Strontium Chloride and its hexahydrate	10476-85-4	
Strontium Citrate	813-97-8	
Strontium Hydroxide	10840-07-4, 1311-10-0	
Strontium Peroxide	1314-18-7	
Strontium Sulfide	1314-96-1	
Strontium Thioglycolate	38337-95-0	
Styrene 100-42-5		Usage ban
Sulindac 38194-50-2		Usage ban
Symphytum spp. (comfrey) except symphytum officinale		Usage ban
Tagetes oil and absolute 8016-84-0		
In leave-on products		0.01%
TBHQ 1948-33-0		0.1%
Theophylline 58-55-9		Usage ban
Thioacids and their derivatives various		
Products for use around the eye area		Usage ban
In all other types of products		Specific label requirements ²¹

²¹ Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information see the H&M document "Labelling requirements for cosmetic products"- for H&M internal use only, not available for suppliers.

²² Total amount (in weight, as the sum of all formulations) per each individual product.

Restricted substance CAS number	Limit/Requirement
Thioglycolic acid and its salts 68-11-1	
Products intended for eyelash waving	Usage ban
Thioglycolic acid, including its salts and esters 68-11-1	
Rinse-off hair products	2%
Thiolactic acid and its salt 79-42-5	
Hair waving or straightening products	8.5% ready for use at pH<9.5, Specific label requirements ²³
Depilatories	5% ready for use at pH 7-12.7, Specific label requirements ²³
Rinse off hair care products	2% ready for use at pH 7-9.5, Specific label requirements ²³
In all other types of products	Usage ban
Thorium dioxide 1314-20-1	Usage ban
Tocopherol 1406-18-4	20%
Tolnaftate 2398-96-1	Usage ban
Toluene 108-88-3	Usage ban
Topiramate -	Usage ban
Tranexamic acid 1197-18-8	
Skin products	3.0%
Products intended to be placed in contact with the mucous membrane	Usage ban
Trans-rose ketone-1 24720-09-0	0.02%
Trans-rose ketone-2 23726-91-2	0.02%
Trans-rose ketone-3 71048-82-3	0.02%
Trans-2-Hexenal 6728-26-3	0.002%
Triclosan 3380-34-5	Usage ban
Tris(n-hydroxyethyl) hexahydrotriazine 4719-04-4	Usage ban
Tyrosine 1404-88-2	Usage ban
Urea 57-13-6	10%
Usnic Acid 125-46-2	Usage ban
Zinc phenolsulfonate 127-82-2	
Leave-on products	2%

²³ Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information see the H&M document "Labelling requirements for cosmetic products"- for H&M internal use only, not available for suppliers.

Restricted substance <i>CAS number</i>	Limit/Requirement
Zinc pyrithione 13463-41-7	
When used for other purposes than as a preservative	
Rinse-off products with purpose to reduce dandruff	1%
Other products	Usage ban
Zirconium containing complexes <i>Various</i>	
In aerosol package	Usage ban

7.2.2 Additional Restrictions for Products to Malaysia

Restricted substance <i>CAS number</i>	Limit/Requirement
Anthranilic acid 2719-08-6	Usage ban
Alkaloids of:	
Piper methysticum 84696-40-2	Usage ban
Pomegranate <i>Various</i>	
Quebracho -	
Barium sulfide 21109-95-5	Usage ban
Bifonazole 60628-96-8	Usage ban
Bismuth citrate 813-93-4	Usage ban
Bismuth subgallate 99-26-3	Usage ban
Bismuth subnitrate 1304-85-4	Usage ban
Butyrolactone 96-48-0	Usage ban
Clotrimazole 23593-75-1	Usage ban
Cucurbitacin B 6199-67-3	Usage ban
Cysteamine HCL 156-57-0	Usage ban
Disodium succinoyl glycyrrhetinate 7421-40-1	Usage ban
Dyphylline 479-18-5	Usage ban
Disodium etidronate 7414-83-7	Usage ban
Ethyl ether 60-29-7	Usage ban
Heliotropine 120-57-0	
All products except perfumes and when added as a flavouring agent	Usage ban
Heparin 9005-49-6	Usage ban
Hydrobromic acid 10035-10-6	Usage ban
Ibuprofen 15687-27-1	Usage ban
Itraconazole 84625-61-6	Usage ban
Methylglucamine 6284-40-8	Usage ban
Melatonin 73-31-4	Usage ban
Miconazole nitrate 22832-87-7	Usage ban
Naproxen 22204-53-1	Usage ban
Natamycin 7681-93-8	Usage ban
Phenylacetic acid 103-82-2	Usage ban
Piracetam 7491-74-9	Usage ban
Pyricarbate 1882-26-4	Usage ban
Quinine 130-95-0	Usage ban (unless when used as denaturant)
Ursodiol 128-13-2	Usage ban
Valepotriates in valeriana extracts <i>Various</i>	Usage ban

7.2.3 Additional Restrictions for Products to South Korea

Restricted substance <i>CAS number</i>	Limit/Requirement
Acetone 67-64-1	Nail polish remover with a content of acetone shall have a child proof container ²⁴
CI 40800 (Orange) -	Usage ban
CI 14700 (Red)	Lakes of Strontium, Barium or Zirconium are prohibited.
CI 15800 (Red)	
CI 17200 (Red)	
CI 42090 (Blue)	
CI 45350 (Yellow)	
CI 47000 (Yellow)	
CI 59040 (Green)	
CI 60725 (Violet)	
CI 61565 (Green)	
CI 61570 (Green)	
CI 73360 (Green)	
Henna Leaf powder (Lawsonia Inermis) 84988-66-9	Usage ban
Hydrocarbons with a viscosity ≤ 21 cSt (at 40°C) <i>Various</i>	Non-emulsion product with more than 10% hydrocarbons shall have a child proof container ²⁴
Hydrogen peroxide 7722-84-1	
Nail hardener products	2%
Other products	Usage ban
Resorcinol 108-46-3	0.1%

²⁴ Such container shall not be difficult to open for an adult, but difficult to open for a child of 5 years' age or younger. ISO standard 8317 applies for child proof container.

7.2.4 Additional Restrictions for Products to USA²⁵

Restricted substance <i>CAS number</i>	Limit/Requirement
Dihydroxyacetone 96-26-4	
Tanning Products	Specific label requirements ²⁶
Products applied to the area of eyes, lips or mucous membrane	Usage ban
Substances used as active ingredients in self-tanning products various	Must be approved by FDA for use as a colour additive in cosmetic products. ²⁷

7.2.5 Additional Restrictions for Children Cosmetic Products to USA

Restricted substance <i>CAS number</i>	Limit/Requirement
Benzophenone-2 131-55-5	Usage ban
BHA 25013-16-5	Usage ban
Butylparaben 94-26-8	Usage ban
Diethyl phthalate 84-66-2	Usage ban
Ethylhexyl methoxycinnamate 5466-77-3	Usage ban
Ethylparaben 120-47-8	Usage ban
Glycol 107-21-1	Usage ban
4-Hydroxybenzoic acid 99-96-7	Usage ban
MEK 78-93-3	Usage ban
Methylparaben 99-76-3	Usage ban
Phthalic anhydride 85-44-9	Usage ban
Propyl paraben 94-13-3	Usage ban
Triphenyl phosphate 115-86-6	Usage ban

²⁵ The requirements stated in this chapter is also valid for Puerto Rico.

²⁶ Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information, see the H&M document "Labelling requirements for cosmetic products" – for H&M internal use only, not available for suppliers.

²⁷ Title 21 of the Code of Federal Regulations.

8. Limitations of Volatile Organic Compounds (VOCs) for Cosmetic Products in the USA²⁸ and Canada

Volatile organic compounds (VOCs) means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. A number of chemicals are excluded from this VOCs definition, please refer *Table 3. Exempted Volatile Organic Compounds*.

VOCs regulated cosmetic products together with limits are listed in *Table 1*.

Each product, for USA, subjected to *Table 1*. requires specific label requirements.²⁹

Table 2. defines the VOCs and also provides a list of examples of VOCs for usage in cosmetic products. VOCs which are not covered by *Table 2.*, are not considered as VOCs for the purpose of this chapter.

IMPORTANT NOTICE!

The list of examples of VOCs in *Table 2*. and the list of exempted VOCs in *Table 3*. is not a list of allowed ingredients. The formula must always comply with the H&M Chemical Restriction and must pass the cosmetic product safety report.

²⁸ The requirements regarding VOCs for cosmetic products stated in this chapter is also valid for Puerto Rico.

²⁹ Specific label requirements are additional to the EU Cosmetic Regulation. For detailed information see the H&M document "Labelling requirements for cosmetic products"- for H&M internal use only, not available for suppliers.

Table 1. VOC Products and VOC Limitations in the USA and Canada

Product Type ³⁰	VOC Limitations (weight %)	
	USA	Canada
Any of the product type listed below with perfume ingredients > 2%, except for personal fragrance product	The perfume ingredients concentration C% will contribute to the calculated VOC concentration by (C-2)%	
Astringent/Toner	35	Not restricted
Deodorant <i>Note: 1) Alcohol (CAS 64-17-5) 2) Deodorant with a combined concentration of perfume ingredients and colorants >2%</i>	1) <i>Alcohol is not defined as MVOC in deodorant.</i> 2) The combined perfume ingredients and colorants concentration C% will contribute to the calculated VOC concentration by (C-2) %.	Not restricted
Deodorant Non-Aerosol	0 HVOC ³¹	Not restricted
	0 MVOC ³²	
	Other VOCs not restricted	
Deodorant Aerosol	0 HVOC ³¹	20 HVOC ³¹
	10 MVOC ³²	MVOC ³² not restricted
	Other VOCs not restricted	Other VOCs not restricted
Hairspray	55	80
Hair Shine	55	Not restricted
Hair Mousse	6	16
Hair Styling Product		
Gel	2	6
Aerosol	6	Not restricted
Pump spray	6	
All other forms	2	
Nail Polish Remover	1	85
Personal Fragrance Product <i>Note: perfume ingredient is NOT defined as VOC in personal fragrance products</i>		
Products with 20% or less fragrance	75	Not restricted
Products with more than 20% fragrance	65	
Shaving Cream	5	5
Shaving Gel	4	Not restricted
Temporary Hair Colour Aerosol	55	Not restricted

³⁰ For definition of different product type see *Table 4*.

³¹ HVOC is any organic compound that exerts a vapor pressure greater than 80 mm Hg at 20°C.

³² MVOC is any organic compound that exerts a vapor pressure greater than 2 mm Hg and less than or equal to 80 mm Hg when measured at 20°C.

Table 2. Volatile Organic Compounds (VOCs)

Volatile Organic Compound	CAS number
Volatile organic compound for usage in cosmetic products	
<p>For the purpose of this <i>Table 2</i>:</p> <ul style="list-style-type: none"> Compound = a molecule of definite chemical formula and isometric structure; Mixture = a substance comprised of two or more compounds. <p>Compound or mixture that contains at least one carbon atom, which is NOT listed in the <i>Table 3</i>, and meets one or more of the following:</p> <ul style="list-style-type: none"> has a vapor pressure more than 0.1mm Hg at 20 °C; is a chemical compound with ≤ 12 carbon atoms, or a chemical mixture comprised solely of compounds with ≤ 12 carbon atoms, as verified by formulation data, and the vapor pressure and boiling point are unknown; is a chemical compound with a boiling point lower than 216 °C; is a weight percent of a chemical mixture that boils below 216 °C. 	
Examples of volatile organic compound for usage in cosmetic products	
Perfume ingredient	-
Plant/fruit derivatives See the VOC definition in <i>Table 2</i> .	various
Acetic acid	64-19-7
Acetophenone	98-86-2
Acetum	90132-02-8
Alcohol <i>Alcohol is not defined as MVOC for deodorant.</i>	64-17-5
Alpha-terpinene	99-86-5
Amyl acetate	628-63-7
Amyl alcohol	71-41-0
Amyl propionate	624-54-4
Benzaldehyde	100-52-7
Benzoyl isopropanol	7473-98-5
Benzyl acetate	140-11-4 / 101-41-7
Beta-pinenes	127-91-3
Butane	106-97-8
Butoxyethanol	111-76-2
Butoxyethyl acetate	112-07-2
Butoxypropanols (mixture of isomers), e.g., isobutoxypropanol	various, e.g. 23436-19-3
Butyl acetate	123-86-4
Butyl acrylate	141-32-2
Butyl alcohol	71-36-3 / 78-92-2 / 75-65-0

Volatile Organic Compound	CAS number
Butyl methacrylate	97-88-1
Butyl propionate	590-01-2
Butyrolactone	96-48-0
C10-13 alkane	129813-66-7
C10-13 isoparaffin	68551-17-7
C11-12 isoparaffin	246538-76-1
C11-13 isoparaffin	246538-78-3
C11-15-isoalkanes	90622-58-5
C12-14 isoparaffin	68551-19-9
C7-8 isoparaffin	70024-92-9
C8-9 isoparaffin	246538-71-6
C9-11 isoparaffin	68551-16-6
Camphor	464-49-3 / 76-22-2
Caprylic alcohol	111-87-5
Chlorobutanol	57-15-8
Citronellal	106-23-0
Cyclohexane	110-82-7
Cyclohexanol	108-93-0
Cyclohexanone	108-94-1
Cyclohexyl methacrylate	101-43-9
p-Cymene	99-87-6
Decane	124-18-5
Deodorized kerosene	8008-20-6
Diacetone alcohol	123-42-2
Diacetyl	431-03-8
Diethoxydiglycol	112-36-7
Diethylbenzene	25340-17-4
Diethylenetriamine	111-40-0
Dihydroxyacetone	96-26-4
Dimethyl ether	115-10-6
Dimethyl mea	108-01-0
Dimethyl succinate	106-65-0
Dimethylphenyl carbinol	617-94-7
2,6-Dimethyl-4-heptanone	108-83-8
Dodecane	112-40-3
Dodecene	112-41-4
Ethanolamine	141-43-5
Ethoxydiglycol	111-90-0

Volatile Organic Compound	CAS number
Ethyl 2-methylbutyrate	7452-79-1
Ethyl 2-methylvalerate	39255-32-8
Ethyl acetate	141-78-6
Ethyl acetoacetate	141-97-9
Ethyl butyrate	105-54-4
Ethyl ether	60-29-7
Ethyl formate	109-94-4
Ethyl isobutyrate	97-62-1
Ethyl lactate	97-64-3
Ethyl methacrylate	97-63-2
Ethyl propionate	105-37-3
2-Ethylhexanol	104-76-7
Ethylhexyl acetate	103-09-3
Formic acid	64-18-6
Gamma-terpinene	99-85-4
Glutaral	111-30-8
Glyoxal	107-22-2
Hema	868-77-9
Heptane	142-82-5
Hexanal	66-25-1
1,6-Hexanediamine	124-09-4
Hexene (mixed isomers) , e.g., 1-hexene	various , e.g., 592-41-6
3-Hexenol	928-96-1
3-Hexenyl acetate	1708-82-3
Hexyl acetate	142-92-7
Hexyl alcohol	111-27-3
Isoamyl acetate	123-92-2
Isoamyl butyrate	51115-64-1
Isobutane	75-28-5
Isobutyl acetate	110-19-0
Isobutyl isobutyrate	97-85-8
Isobutyl methacrylate	97-86-9
Isododecane	31807-55-3 / 93685-81-5 / 13475-82-6
Isononyl alcohol	27458-94-2
Isooctane	540-84-1
Isopentane	78-78-4
Isopentyldiol	50468-22-9 / 2568-33-4
Isopropanolamine	78-96-6
Isopropyl acetate	108-21-4
Isopropyl alcohol	67-63-0
L-beta-pinene	18172-67-3

Volatile Organic Compound	CAS number
Limonene	138-86-3 / 5989-27-5
M-aminophenol	591-27-5
MEK	78-93-3
Menthol	1490-04-6 / 2216-51-5 / 89-78-1 / 15356-70-4
Mesitylene	108-67-8
Methacrylic acid	79-41-4
p-Menthadiene	555-10-2
Methoxyisopropanol	107-98-2
Methoxyisopropyl acetate	108-65-6
Methoxymethylbutanol	56539-66-3
4-Methylpentan-2-ol	108-11-2
2-Methylpropanol	78-83-1
Methyl amyl ketone	110-43-0
Methyl isopropyl ketone	563-80-4
Methyl lactate	27871-49-4 / 547-64-8
Methyl methacrylate	80-62-6
Methyl nonyl ketone	112-12-9
Methylene glycol	463-57-0
Methylethanolamine	109-83-1
Methylheptanone	541-85-5
Methyltrimethoxysilane	1185-55-3
Mineral spirits	8032-32-4
Myrcene	123-35-3
Nonanal	124-19-6
Nonane	111-84-2
Octane	111-65-9
Pentane	109-66-0
Pentanol (mixed isomers)	various
2-Pentanol	6032-29-7
Pentanone	107-87-9
Phenylpropane	103-65-1
Pinene	80-56-8
PPG-2 Methyl ether(isomers and mixture of isomers)	various, e.g. 13429-07-7 / 34590-94-8
Propane	74-98-6
Propionic acid	79-09-4
Propyl acetate	109-60-4
Propyl alcohol	71-23-8
Propylene glycol butyl ether	5131-66-8
Propylene glycol propyl ether	1569-01-3 / 30136-13-1
Terpene hydrocarbons	68956-56-9
Terpineol	8000-41-7

Volatile Organic Compound	CAS number
Terpinolene	586-62-9
Tetrahydrofurfuryl methacrylate	2455-24-5
Trans-2-hexenal	6728-26-3
Triethylamine	121-44-8
Trifluoroethyl methacrylate	352-87-4
Trimethylbenzene	95-63-6
Trimethylbicycloheptane	473-55-2 / 6876-13-7
Tromethamine	77-86-1
Turpentine	8006-64-2 / 9005-90-7 / 8052-14-0
Undecane	1120-21-4
Vinegar	8028-52-2
Vinylstyrene	1321-74-0
Xylene	95-47-6 / 108-38-3 / 1330-20-7

Table 3. Exempted Volatile Organic Compounds

Volatile Organic Compound	CAS number
Acetone	67-64-1
Aminomethyl propanol	124-68-5
Ammonium carbonate	10361-29-2
Carbon dioxide	124-38-9
Chlorotrifluoropropene	102687-65-0
Cyclic, branched, or linear completely methylated siloxanes	-
Cyclic, branched, or linear, completely fluorinated alkanes	-
Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations	-
Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations	-
Dimethyl carbonate	616-38-6
Ethane	74-84-0
Hydrofluorocarbon 152A	75-37-6
Metallic carbides	Various
Metallic carbonates	Various
Methyl acetate	79-20-9
Pentafluoropropane	460-73-1
Propylene carbonate	108-32-7
Sulfur containing perfluorocarbons with no unsaturations and with the sulfur bonds to carbon and fluorine	-
T-butyl acetate	540-88-5
2,5,5-Trimethyl-2-phenyl-1,3-dioxane	406-58-6

Table 4. Definition of Product Type – only for the purpose of Chapter 8

Product Type	Definition
Astringent/ Toner	Astringent/Toner means any product designed or labeled to be applied to the skin for the purpose of cleaning or tightening pores. This category also includes clarifiers and substrate-impregnated products. This category does not include any hand, face, or body cleaner or soap product, “Medicated Astringent/Medicated Toner,” cold cream, lotion, antiperspirant, or any Astringent/Toner product regulated as a drug by the United States Food and Drug Administration (FDA).
Deodorant	Deodorant means any product including, but not limited to, aerosol, roll-ons, sticks, pumps, pads, creams, and squeeze-bottles, that indicates or depicts on the container or packaging, or on any sticker or label affixed thereto, that the product can be used on or applied to the human axilla to provide a scent and/or minimize odour.
Hairspray	Hairspray means a consumer product that is applied to styled hair, and is designed or labelled to provide sufficient rigidity, to hold, retain and/or (finish) the style of the hair for a period of time.
Hair Shine	Hair Shine means any product designed for the primary purpose of creating a shine when applied to the hair. “Hair Shine” includes, but is not limited to, dual-use products designed primarily to impart sheen to the hair. “Hair Shine” does not include “Hair Finishing Spray,” “Hair Mousse,” “Hair Styling Product,” or products whose primary purpose is to condition or hold the hair.
Hair Mousse	Hair Mousse means a hairstyling foam designed to facilitate styling of a coiffure and provide limited holding power.
Hair Styling Product	<p>Hair Styling Product means a consumer product that is designed or labeled for the application to wet, damp or dry hair to aid in defining, shaping, lifting, styling and/or sculpting of the hair.</p> <p>“Hair Styling Product” includes, but is not limited to hair balm, clay, cream, creme, curl straightener, gel, liquid, lotion, paste, pomade, putty, root lifter, serum, spray gel, stick, temporary hair straightener, wax, spray products that aid in styling but do not provide finishing of a hair style, and leave-in volumizers, detanglers and/or conditioners that make styling claims. “Hair Styling Product” does not include “No Rinse Shampoo,” “Thermal Protectant,” “Hair Mousse,” “Hair Shine,” “Hair Finishing Spray,” or shampoos or conditioners that are rinsed from the hair prior to styling.</p> <p>“Finish” or “finishing” means the maintaining and/or holding of previously styled hair for a period of time. “Styling” means the forming, sculpting, or manipulating the hair to temporarily alter the hair’s shape.</p>
Nail Polish Remover	Nail Polish Remover means a product designed to remove nail polish and coatings from fingernails or toenails.

Product Type	Definition
Personal Fragrance Product	<p>Personal Fragrance Product means any product which is applied to the human body or clothing for the primary purpose of adding a scent or masking a malodor, including, but not limited to, EdT, body mist, perfume, body splash, body spray, cologne, aftershave, toilet water, lotion, and powder.</p> <p>Personal Fragrance Product does not include: (A) deodorant; (B) medicated products designed primarily to alleviate fungal or bacterial growth on feet or other areas of the body; (C) mouthwashes, breath fresheners and deodorizers; (D) lotions, moisturizers, powders or other skin care products designed or labeled to be used primarily to alleviate skin conditions such as dryness and irritations; (E) products designed exclusively to be applied to human genitalia areas, undergarments, and any paper products, napkins or other products that are affixed to undergarments, such as sanitary pads; (F) soaps, shampoos, and products primarily used to clean the human body; and (G) fragrance products designed to be used exclusively on nonhuman animals.</p>
Shaving Cream	Shaving Cream means an aerosol product which dispenses a foam lather intended to be used with a blade or cartridge razor, or other wet-shaving system, in the removal of facial or other bodily hair. "Shaving Cream" does not include "Shaving Gel."
Shaving Gel	Shaving Gel means an aerosol product which dispenses a post-foaming semi-solid designed to be used with a blade, cartridge razor, or other shaving system in the removal of facial or other bodily hair. "Shaving Gel" does not include "Shaving Cream."
Temporary Hair Colour Aerosol	"Temporary Hair Colour" means any product that applies color, glitter, or UV-active pigments to hair, wigs, or fur and is removable when washed. "Temporary Hair Color" includes hair color mousses and products labeled to add texture or thickness to cover thinning/balding areas. "Temporary Hair Color" does not include "Hair Finishing Spray," "Hair Styling Product," or "Hair Mousse."

9. Permitted Colorants in Cosmetic Products

All substances listed below are permitted as colorants in Cosmetic products under the specific restrictions and requirements laid down.

The numbers under the column “Field of application” mean:

1. Colouring agents permitted in all cosmetic products.
2. Colouring agents permitted in all cosmetic products, except those intended for use in the area of eye (eye lid, eye lashes and area below the eye down to the cheek bone).
3. Colouring agents permitted only in externally applied cosmetic products. They should not intend to come into contact neither with the mucous membrane (includes the intimate/genital area and the oral cavity of the mouth) nor with the lips.
4. Colouring agents permitted only in externally applied cosmetic products, except those intended for use in the area of eye. They should not intend to come into contact neither with the mucous membrane nor with the lips.

Permitted Colorants ³³	Colour	Field of Application ³⁴				Other Requirements ³⁵
		1	2	3	4	
CI 10316 ³⁶	Yellow				X	See also 21 CFR 74.2707a. All lakes are permitted as the ordinary colour, see 21 CFR 82.2051. Usage ban of Zirconium containing complexes in aerosol package.
CI 12085 ³⁶	Red				X	Maximum level in the finished cosmetic product should not exceed 3.0%. Also permitted in lip products at a maximum level of 3.0% in the finished product. See also 21 CFR 74.2336. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.
CI 14700	Red				X	See also 21 CFR 74.2304. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051 and 21 CFR 82.51. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 15510 ³⁶	Orange				X	See also 21 CFR 74.2254. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.

³³ Permitted colorants are named by their CI no. or other commonly used denomination. The lakes and salts of the permitted colorants, using substances not prohibited in Annex II or not regulated in Annex III of EU Cosmetic Regulation, are also permitted except if otherwise specified under the headline “Other requirements”.

³⁴ If there is no cross in the columns below the headline “Field of application” appropriate restrictions and conditions of use will be found under the headline “Other requirements”.

³⁵ Colorants whose number is preceded by the letter “E” in accordance with the EU Directive of 1962 concerning foodstuffs and coloring matters must fulfil the purity requirements laid down in those Directives. They continue to be subject to the general criteria set out in Annex III to the 1962 Directive concerning coloring matters where the letter “E” has been deleted there from. See also EU Cosmetic Regulation Annex IV for more information about the limitations and purity requirements in Europe for each colorant specified above.

³⁶ The insoluble Barium, Strontium and Zirconium lakes, salts and pigments of these colorants shall also be permitted. They must pass test for insolubility, which will be determined by the procedure laid down in Article 8 in the EU Cosmetic Regulation.

Permitted Colorants ³³	Colour	Field of Application ³⁴				Other Requirements ³⁵
		1	2	3	4	
CI 15800	Red				X	See also 21 CFR 74.2331. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 15850^{36,37}	Red		X			See also 21 CFR 74.2306. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.
	Red		X			See also 21 CFR 74.2307. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.
CI 15880	Red				X	See also 21 CFR 74.2334. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051.
CI 15985³⁶	Yellow		X			E 110. See also 21 CFR 74.2706. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051 and 21 CFR 82.51. Usage ban of Zirconium containing complexes in aerosol package.
CI 16035	Red	X				Shall not be exposed to oxidizing or reducing agents or any other condition that may affect their integrity. The aluminium lake of this colour is permanently permitted in cosmetics intended for use in the area of the eye. See also 21 CFR 74.2340.
CI 17200³⁶	Red				X	Also permitted in lip products at a maximum level of 3.0% in the finished product. And permitted in mouthwashes (including breath fresheners) and dentifrices. See also 21 CFR 74.2333. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 19140³⁶	Yellow	X				E 102. The aluminium lake of this colour is permanently permitted in cosmetics intended for use in the area of the eye. See also 21 CFR 74.2705. All other lakes are permitted in all cosmetics, except those intended for use in the area of the eye, see 21CFR 82.1051 and 21 CFR 82.51. Usage ban of Zirconium containing complexes in aerosol package.
CI 40800	Orange	X				See also 21 CFR 73.2095. For products to South Korea: Usage ban.
CI 42053	Green		X			See also 21 CFR 74.2203. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051 and 21 CFR 82.51.

³⁷ This colorant has two different names as a certified colorant in USA. Therefore this colorant has two different criteria regarding purity, other requirements, limitations and field of application.

Permitted Colorants ³³	Colour	Field of Application ³⁴				Other Requirements ³⁵
		1	2	3	4	
CI 42090 ³⁷	Blue 4				X	See also 21 CFR 74.2104. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
	Blue 1	X				The aluminium lake of this colour is permitted in cosmetics generally, including cosmetics intended for use in the area of the eye. See also 21 CFR 74.2101. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 45350 ³⁷	Yellow				X	Maximum level in the finished cosmetic product should not exceed 6%. See also 21 CFR 74.2707. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
	Yellow				X	Maximum level in the finished cosmetic product should not exceed 6%. See also 21 CFR 74.2708. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 45370 ³⁶	Orange				X	Also permitted in lip products at a maximum level of 5.0% in the finished product. And permitted in mouthwashes and dentifrices that are to be ingested. Not more than 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. See also 21 CFR 74.2255. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.
CI 45380 ^{36,37}	Red		X			Not more than 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. See also 21 CFR 74.2321. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.
	Red		X			Not more than 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. See also 21 CFR 74.2322. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.

Permitted Colorants ³³	Colour	Field of Application ³⁴				Other Requirements ³⁵
		1	2	3	4	
CI 45410 ^{36,37}	Red		X			Not more than 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. See also 21 CFR 74.2327. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.
	Red		X			Not more than 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. See also 21 CFR 74.2328. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. Usage ban of Zirconium containing complexes in aerosol package.
CI 47000	Yellow				X	See also 21 CFR 74.2711. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 47005	Yellow		X			E 104. See also 21 CFR 74.2710. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051.
CI 59040	Green				X	Maximum level in the finished cosmetic product should not exceed 0.01%. See also 21 CFR 74.2208. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 60725	Violet				X	See also 21 CFR 74.2602. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 60730	Violet				X	See also 21 CFR 74.2602a.
CI 61565	Green				X	See also 21 CFR 74.2206. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 61570	Green	X				See also 21 CFR 74.2205. All lakes are permitted in all cosmetics, except those intended for use in the area of the eye, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 73360	Red		X			See also 21 CFR 74.2330. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited.
CI 75120	Orange	X				E 160 b. See also 21 CFR 73.2030.
CI 75130	Orange	X				E 160 a. See also 21 CFR 73.2095.
CI 75170	White	X				See also 21 CFR 73.2329.

Permitted Colorants ³³	Colour	Field of Application ³⁴				Other Requirements ³⁵
		1	2	3	4	
CI 75470	Red	X				E 120. See also 21 CFR 73.2087.
CI 75810	Green					Only to be used in cosmetic dentifrices at a maximum level of 0.1% and only together with*: Water. Glycerine. Sodium carboxymethylcellulose. Tetrasodium pyrophosphate. Sorbitol. Magnesium phosphate, tribasic. Calcium carbonate. Calcium phosphate, dibasic. Sodium N-lauroyl sarcosinate. Artificial sweeteners*. Flavours*. Preservatives* E 140 and E 141. *See also 21 CFR 73.2125.
CI 77000	White			X		E 173. See also 21 CFR 73.2645.
CI 77007	Blue			X		See also 21 CFR 73.2725.
CI 77163	White	X				See also 21 CFR 73.2162.
CI 77266	Black	X				See also 21 CFR 74.2052.
CI 77288	Green			X		Free from chromate ion. See also 21 CFR 73.2327.
CI 77289	Green			X		Free from chromate ion. See also 21 CFR 73.2326.
CI 77400³⁷	Brown	X				See also 21 CFR 73.2646.
	Brown	X				See also 21 CFR 73.2647.
CI 77489	Orange	X				E 172. See also 21 CFR 73.2250.
CI 77491	Red	X				E 172. See also 21 CFR 73.2250.
CI 77492	Yellow	X				E 172. See also 21 CFR 73.2250.
CI 77499	Black	X				E 172. See also 21 CFR 73.2250.
CI 77510	Blue			X		Free from cyanide ions. See also 21 CFR 73.2299.
CI 77742	Violet	X				See also 21 CFR 73.2775.
CI 77820	White					Permitted in fingernail polishes at a maximum level of 1.0% in the finished product. E 174. See also 21 CFR 73.2500.
CI 77891	White	X				E 171. See also 21 CFR 73.2575.
CI 77947	White	X				See also 21 CFR 73.2991.
Caramel	Brown	X				E 150. See also 21 CFR 73.2085.
Mica	Opaque	X				See also 21 CFR 73.2496.

10. Permitted UV Filters in Cosmetic Products³⁸

Permitted UV filter CAS number	Limit/ Requirement	Permitted markets	Permitted combinations ³⁹	
			1	2
Benzophenone-3 131-57-7	6%	All markets except USA	X	X
Benzophenone-4 4065-45-6	5%	All markets	X	X
Benzophenone-5 6628-37-1	5%	All markets	X	X
Butyl Methoxydibenzoylmethane 70356-09-1	3%	All markets		X
Ethylhexyl Dimethyl PABA 21245-02-3	8%	All markets	X	
Ethylhexyl Methoxycinnamate 5466-77-3	7.5%	All markets except USA	X	X
Ethylhexyl Salicylate 118-60-5	5%	All markets	X	X
Homosalate 118-56-9	10%	All markets	X	X
Octocrylene 6197-30-4	10%	All markets		X
Phenylbenzimidazole Sulfonic Acid 27503-81-7	4%	All markets	X	
Titanium Dioxide 13463-67-7/ 1317-70-0/ 1317-80-2	25%	All markets	X	

³⁸ Products that contain the permitted UV filters, alone or in acceptable combination, with the purpose to protect the skin from UV-radiation are defined as a sunscreen product. Sunscreen products are defined as over the counter drugs in the U.S.A.

³⁹ One formulation may contain one single UV filter or several UV filters in combination. UV filters marked by an X in column 1 may be combined in the same formulation. UV filters marked by an X in column 2 may be combined in the same formulation. No other combinations are permitted.

The concentration limit for each individual UV filter ingredient is valid when both single and multiple UV filters are used.

In formulations with two or more UV filters the concentration of each UV filter must be high enough to contribute SPF of 2 or more to the final product. For example, a formulation with UV filters "A and B" has SPF of 15, then A has to contribute with at least SPF of 2 and B with SPF of 13 or less; 2+13=15. (1+14=15 is not ok since 1<2)

11. Permitted Preservatives in Cosmetic Products

The listed preservatives can only be used if the conditions in the table are fulfilled.

Permitted preservative <i>CAS number</i>	Conditions	
	Maximum concentration	Field of application
Benzoic acid 65-85-0 Sodium Benzoate 532-32-1	2.5% (as acid)	Rinse-off products, except oral
	1.7% (as acid)	Oral products
	0.5% (as acid)	Leave-on products
Salts of Benzoic acid (Ammonium benzoate, calcium benzoate, potassium benzoate, magnesium benzoate, MEA-benzoate, methyl benzoate, ethyl benzoate, propyl benzoate, butyl benzoate, isobutyl benzoate, isopropyl benzoate, phenyl benzoate) 1863-63-4, 2090-05-3, 582-25-2, 553-70-8, 4337-66-0, 93-58-3, 93-89-0, 2315-68-6, 136-60-7, 120-50-3, 939-48-0, 93-99-2	0.5% (as acid)	All products
Propionic acid and its salts (ammonium propionate, calcium propionate, magnesium propionate, potassium propionate, sodium propionate) 79-09-4, 17496-08-1, 4075-81-4, 557-27-7, 327-62-8, 137-40-6	2% (as acid)	All products
Salicylic acid and its salts ⁴⁰ (calcium salicylate, magnesium salicylate, MEA- salicylate, sodium salicylate, potassium salicylate, TEA- salicylate) 69-72-7, 824-35-1, 18917-89-0, 59866- 70-5, 54-21-7, 578- 36-9, 2174-16-5	0.5% (as acid)	All products except product for children under 3 years of age (except for shampoos) Specific labelling requirement ⁴⁰
Sorbic acid and its salts (calcium sorbate, sodium sorbate, potassium sorbate) 110-44-1, 7492-55-9, 7757-81-5, 24634-61- 5	0.6% (as acid)	All products
Zinc pyrithione 13463-41-7	0.5%	Rinse-off products except oral products
Inorganic sulphites and hydrogensulphites (sodium sulfite, ammonium bisulfite, ammonium sulfite, potassium sulfite, potassium hydrogen sulfite, sodium bisulfite, sodium metabisulfite, potassium metabisulfite) 7757-83-7, 10192-30- 0, 10196-04-0, 10117- 38-1, 7773-03-7, 7631-90-5, 7681-57-4, 16731-55-8	0.2% (as free SO ₂)	All products
Chlorobutanol 57-15-8	0.5%	All products except aerosol dispensers (sprays) Specific labeling requirement ⁴⁰

⁴⁰ Specific label requirement is according to the EU cosmetic regulation

Permitted preservative CAS number	Conditions	
	Maximum concentration	Field of application
4-Hydroxybenzoic acid and its Methyl- and Ethylesters and their salts (methylparaben, potassium ethylparaben, potassium paraben, sodium methylparaben, sodium ethylparaben, ethylparaben, sodium paraben, potassium methylparaben, calcium paraben) 99-96-7, 99-76-3, 36457-19-9, 16782-08-4, 5026-62-0, 35285-68-8, 120-47-8, 114-63-6, 26112-07-2, 69959-44-0	0.4 % (as acid) for single ester 0.8 % (as acid) for mixtures of esters	All products
Butylparaben and its salts (sodium butylparaben, potassium butylparaben) 94-26-8, 36457-20-2, 38566-94-8 Propylparaben and its salts (sodium propylparaben, potassium propylparaben) 94-13-3, 35285-69-9, 84930-16-5	0.14 % (as acid) When mixed with other parabens, sum of conc.: 0.8% (as acid), but individual concentration for butylparaben and/or propylparaben shall not exceed 0.14 %	All products except leave-on products for application on the nappy area of children under 3 years of age. Specific labeling requirement ⁴¹
Dehydroacetic acid 520-45-6, 16807-48-0 Sodium dehydroacetate 4418-26-2	0.6% (as acid)	All products except aerosol dispensers (sprays)
Formic acid 64-18-6 Sodium formate 141-53-7	0.5% (as acid)	All products
Dibromohexamidine Isethionate 93856-83-8	0.1%	All products
Undecylenic acid and its salts (potassium undecylenate, sodium undecylenate, calcium undecylenate, TEA-undecylenate, MEA-undecylenate) 112-38-9, 6159-41-7, 3398-33-2, 1322-14-1, 84471-25-0, 56532-40-2	0.2% (as acid)	Rinse-off products
Hexetidine 141-94-6	0.1%	Rinse-off products
5-Bromo-5-nitro-1,3-dioxane 30007-47-7	0.1%	Rinse-off products Specific labeling requirement ⁴¹
2-Bromo-2-nitropropane-1,3-diol 52-51-7	0.1%	All products Specific labeling requirement ⁴¹
Dichlorobenzyl Alcohol 1777-82-8	0.15%	All products
Triclocarban ⁴² 101-20-2	0.2%	All products
Chloroxylenol 88-04-0	0.5%	All products
Imidazolidinyl urea 39236-46-9	0.6%	All products
Phenoxyethanol 122-99-6	1.0%	All products
Methenamine 100-97-0	0.15%	All products
Climbazole 38083-17-9	0.5%	All products

⁴¹ Specific label requirement is according to the EU cosmetic regulation.

⁴² Purity criteria: 3, 3', 4,4'-Tetrachloroazobenzene < 1ppm; 3, 3', 4,4'-Tetrachloroazoxybenzene < 1ppm.

Permitted preservative <i>CAS number</i>	Conditions	
	Maximum concentration	Field of application
DMDM Hydantoin 6440-58-0	0.6%	All products
Benzyl alcohol 100-51-6	1.0%	All products
1-Hydroxy-4-methyl-6- (2,4,4-trimethyl-pentyl)-2-pyridon, Piroctone Olamine 50650-76-5, 68890- 66-4	1.0%	Rinse-off products
	0.5%	Leave-on products
Bromochlorophene 15435-29-7	0.1%	All products
o-Cymen-5-ol 3228-02-2	0.1%	All products
Chlorhexidine, Chlorhexidine diacetate, Chlorhexidine digluconate, Chlorhexidine dihydrochloride 55-56-1, 56-95-1, 18472-51-0, 3697-42-5	0.1% (as chlorhexidine)	Rinse-off products except products used on mucous membranes
	0.05% (as chlorhexidine)	Leave-on products except products used on mucous membranes
Phenoxyisopropanol 770-35-4	1.0%	Rinse-off products
Behentrimonium chloride, Cetrimonium bromide, Cetrimonium chloride, Laurrimonium bromide, Laurrimonium Chloride, Stearrimonium bromide, Stearrimonium chloride 17301-53-0, 57-09-0, 112-02-7, 1119-94-4, 112-00-5, 1120-02-1, 112-03-8	0.1%	All products except hair products
Dimethyl Oxazolidine 51200-87-4	0.1%	pH > 6
Diazolidinyl Urea 78491-02-8	0.5%	All products
Hexamidine, Hexamidine diisethionate, Hexamidine diparaben, Hexamidine paraben 3811-75-4, 659-40-5, 93841-83-9, -	0.1%	All products
Glutaral 111-30-8	0.1%	All products except aerosols (sprays) Specific labeling requirement ⁴³
Chlorphenesin 104-29-0	0.3%	All products
Sodium Hydroxymehtylglycinate 70161-44-3	0.5%	All products
Benzethonium Chloride 121-54-0	0.1%	All products except oral leave-on products or products used on mucous membranes
Benzalkonium chloride, benzalkonium bromide, benzalkonium saccharinate 8001-54-5, 63449-41-2, 91080-29-4, 68989- 01-5, 68424-85-1, 68391-01-5, 61789-71-7, 85409-22-9	0.1% (as benzalkonium chloride)	Rinse-off products Specific labeling requirement ⁴³
	0.05% (as benzalkonium chloride)	Leave-on products Specific labeling requirement ⁴³
Benzylhemiformal 14548-60-8	0.15%	Rinse-off products

⁴³ Specific label requirement is according to the EU cosmetic regulation.

Permitted preservative <i>CAS number</i>	Conditions	
	Maximum concentration	Field of application
Iodopropynyl butylcarbamate 55406-53-6	Rinse-off product (a): 0.02%	All products except oral products, lip products, body lotion, body cream, aerosols and products intended for children under 3 years of age. Specific labeling requirement ⁴⁴
	Leave-on product (b): 0.01%	
	Deodorant, antiperspirant (c): 0.0075%	
Ethyl Lauroyl Arginate HCl 60372-77-2	0.4%	All products except oral products, lip products and spray products

⁴⁴ Specific label requirement is according to the EU cosmetic regulation.

12. Test Methods and Reporting Limits for Cosmetic Products

Restricted substance	Test method	Reporting limit
Antimony (Sb)	Extractable amount: DIN EN 71-3 with sweat simulant of DIN 53160	1 mg/kg
	Total content: Microwave digestion with aqua regia followed by ICP-MS	1 mg/kg
Arsenic (As)	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	1 mg/kg
Cadmium (Cd)	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	1 mg/kg
Chromium (Cr)	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	1 mg/kg
Chromium (Cr⁶⁺)	Photometry/IC	Matrix dependent
Cobalt (Co)	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	1 mg/kg
Cyclotetrasiloxane (D4)	GC-MS analysis	3 mg/kg
Diethylene glycol (DEG)	GC-MS analysis	500 mg/kg
Formaldehyde	Free formaldehyde: LC-MS analysis based on §64 LFGB K 84.00-7 (EG)	5 mg/kg
	Total content: derivatisation with DNPH followed by LC-MS analysis	20 mg/kg
Fragrance allergens	GC-MS analysis after extraction with ethylacetate	5 mg/kg
Lead (Pb)	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	1 mg/kg
Mercury (Hg)	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	0.1 mg/kg
Methylene chloride	GC-MS analysis after extraction with ethylacetate	1 mg/kg
Nickel (Ni)	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	1 mg/kg
2-Nitro-p-phenylene diamine	GC-MS analysis	Matrix dependent
4-Nitro-o-phenylene diamine	GC-MS analysis	Matrix dependent
Nitrosamines	GC-MS analysis	10-50 µg/kg
Nonylphenol ethoxylates (NPE)	LC-MS analysis	40 mg/kg
Octylphenol ethoxylates (OPE)	LC-MS analysis	40 mg/kg
Phthalates (except diethylphthalate)	GC-MS analysis after extraction with THF/methanol	25 mg/kg
Residual solvents	GC-MS-Headspace analysis	1 mg/kg
Silver (Ag) and its salts	Total content: Microwave digestion with HNO ₃ followed by ICP-MS	1 mg/kg
Triclosan	GC and/or LC-MS analysis after extraction with methanol	1-500 mg/kg

13. Version History

Version history information is available in the separate file *History and Sources COSMETICS*.