



# H&M GROUP CHEMICAL RESTRICTIONS 2022

## RESTRICTED SUBSTANCES LIST (RSL)

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### Cosmetic Products

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



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## 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 Group Chemical Restrictions for all products.

H&M Group Chemical Restrictions consists of 12 stand-alone parts which are divided on product type; Aerosols Dispensers, Textile products/Accessories/Footwear/Bags and Belts, Candles, Chemical Products, Cosmetic Products, Electrical and Electronic Products and Batteries, Food Contact Products, Furniture, Hardline, Medical Devices, Non-Commercial Goods (NCG)/Construction and Packaging, Toys.

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 Group 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 Non-Commercial Goods (NCG)/Construction and 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.

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;"><b>Cosmetic Products</b></p> <ul style="list-style-type: none"><li>➤ Lip gloss<ul style="list-style-type: none"><li>- Lip gloss content: Follow restrictions in H&amp;M Chemical Restrictions for <b>Cosmetic Products</b>.</li><li>- Lid and bottle: Follow restrictions in H&amp;M Chemical Restrictions for <b>Non-Commercial Goods (NCG)/Construction and Packaging</b>.</li></ul></li><li>➤ Wet wipes, face mask<ul style="list-style-type: none"><li>- Cosmetic content: Follow restrictions in H&amp;M Chemical Restrictions for <b>Cosmetic Products</b>.</li><li>- The applicator integrated with the cosmetic content: Follow restrictions in H&amp;M Chemical Restrictions for <b>Textile products, Accessories, Footwear, Bags and Belts</b>.</li><li>- The wet wipe packaging: Follow restrictions in H&amp;M Chemical Restrictions for <b>Non-Commercial Goods (NCG)/Construction and Packaging</b>.</li></ul></li></ul>
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	<p style="text-align: center;"><b>Child Appealing and Children Cosmetic</b></p> <ul style="list-style-type: none"> <li>➤ Lip balm             <ul style="list-style-type: none"> <li>- Lip balm content: Follow restrictions in H&amp;M Chemical Restrictions for <b>Cosmetic Products</b>.</li> <li>- Lid and bottle: Follow restrictions in H&amp;M Chemical Restrictions for <b>Non-Commercial Goods (NCG)/Construction and Packaging</b>.</li> <li>- Lid and bottle could also be classified as toy: Follow restrictions in H&amp;M Chemical Restrictions for <b>Toys</b>.</li> </ul> </li> </ul>
	<p style="text-align: center;"><b>Aerosol Dispensers</b></p> <ul style="list-style-type: none"> <li>➤ Cosmetic product in aerosol dispenser             <ul style="list-style-type: none"> <li>- Follow restrictions in H&amp;M Chemical Restrictions for <b>Cosmetic Products</b>.</li> <li>- Follow restrictions in H&amp;M Chemical Restrictions for <b>Aerosol Dispensers</b>.</li> <li>- Follow restrictions in H&amp;M Chemical Restrictions for <b>Non-Commercial Goods (NCG)/Construction and Packaging</b>.</li> </ul> </li> </ul>
	<p style="text-align: center;"><b>Accessories</b> (e.g., make-up tools)</p> <ul style="list-style-type: none"> <li>➤ Accessories (e.g., make-up tools)             <ul style="list-style-type: none"> <li>- Follow restrictions in H&amp;M Chemical Restrictions for <b>Textile products, Accessories, Footwear, Bags and Belts</b>.</li> </ul> </li> </ul>



**Glitter for Skin/Hair/Nail Application – Small Size**  
*(e.g. glitter and other solid material decorations for skin/hair/nail-application, which has a particle size and shape which would allow it to be used as an ingredient in a cosmetic formula)*

- Loose glitter (*glitter which could be mixed in a formula*)
  - Follow restrictions in H&M Chemical Restrictions for **Cosmetic Products**.
  - Lid and bottle:  
Follow restrictions in H&M Chemical Restrictions for **Non-Commercial Goods (NCG)/Construction and Packaging**.
- Glue for loose glitter (*when the glue is in a separate tube/jar*)
  - Follow specific restrictions for glue in H&M Chemical Restrictions for **Chemical Products**.
  - Packaging:  
Follow restrictions in H&M Chemical Restrictions for **Non-Commercial Goods (NCG)/Construction and Packaging**.
- Glitter mixed in a formula (*e.g. glitter mascara*)
  - Follow restrictions in H&M Chemical Restrictions for **Cosmetic Products**.
  - Lid, bottle and applicator:  
Follow restrictions in H&M Chemical Restrictions for **Non-Commercial Goods (NCG)/Construction and Packaging**.



**Glitter for Skin/Hair/Nail Application – Large Size**  
(e.g. rhinestones, sequins and other solid material decorations for skin/hair/nail application, which are too big to be mixed in as an ingredient in a cosmetic formula)

- Accessories (the solid material pre-glued or not pre-glued)
  - Follow restrictions in H&M Chemical Restrictions for **Textile products, Accessories, Footwear, Bags and Belts.**
- Glue (when the glue is in a separate tube/jar)
  - Follow specific restrictions for glue in H&M Chemical Restrictions for **Chemical Products.**
- Packaging
  - Follow restrictions in H&M Chemical Restrictions for **Non-Commercial Goods (NCG)/Construction and Packaging.**

## 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. <sup>1</sup>
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.

<sup>1</sup> 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
<b>EU Cosmetic Regulation<sup>2</sup></b>	All cosmetic products must comply with the EU Cosmetic Regulation.
<b>Cosmetic Ingredients - Requirements for Approval<sup>3</sup></b> Ingredients of the cosmetic formula must fulfil the purity requirements and other specifications given in the Cosmetic Ingredients - Requirements for Approval.	
<b>H&amp;M Production and Documentation Requirements for Cosmetic products<sup>3</sup>(PDRC)</b> Production must follow H&M PDRC which includes requirements for: good manufacturing practices (GMP), ingredients lists, stability testing, microbiological requirements, 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.	
<b>Colorants</b>	The only colorants permitted are listed in <i>9. Permitted Colorants in Cosmetic products</i> .
<b>UV filters in cosmetic products</b>	The only UV filters <sup>4</sup> permitted are listed in <i>10. Permitted UV filters in Cosmetic Products</i> .
<b>Preservatives</b>	The only preservatives permitted are listed in <i>11. Permitted Preservatives in Cosmetic products</i> .
<b>A product consisting only of solid material is a cosmetic product:</b> If the solid material could be part of 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.	

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

<sup>3</sup> Suppliers may download the document at H&M group Supplier Portal.

<sup>4</sup> 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
<b>Antimony (Sb), total amount 7440-36-0</b>	
In products containing polyester ingredient	Polyester ingredient: ≤ 260 ppm <sup>5</sup> + Formula without polyester ingredient: 5ppm <sup>6</sup>
In all other types of products	5 ppm <sup>6</sup>
<b>Arsenic (As), total amount 7440-38-2</b>	2 ppm (as arsenic trioxide)
<b>Cadmium (Cd), total amount 7440-43-9</b>	3 ppm
<b>Chromium VI (Cr<sup>6+</sup>) 18540-29-9</b>	Not detected
<b>Cobalt (Co), total amount 7440-48-4</b>	10 ppm <sup>6</sup>
<b>Formaldehyde 50-00-0</b>	
In all products except were originated from Formaldehyde releasers, total content of formaldehyde	Not detected
In rinse-off products where formaldehyde is originated from Formaldehyde releasers <sup>7</sup>	< 0.05% (500 ppm) free or possible release of formaldehyde (calculated content)
<b>Lead (Pb), total amount 7439-92-1</b>	5 ppm
<b>Mercury (Hg), total amount 7439-97-6</b>	1 ppm
<b>Nickel (Ni), total amount 7440-02-0</b>	10 ppm <sup>6</sup>

#### 7.1.2 For South Korea

Restricted substance <i>CAS number</i>	Limit/Requirement
<b>Antimony (Sb), total amount 7440-36-0</b>	10 ppm

<sup>5</sup> For 100% polyester the total Sb limit applies, as H&M Chemical Restrictions for Textile products, Accessories, Footwear, Bags and Belts. 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.

<sup>6</sup> Guidance Limit.

<sup>7</sup> 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 CAS number	Limit/Requirement
Acetylcysteine 616-91-1	Usage ban
Acetylsalicylic acid 50-78-2	Usage ban
Acetaldehyde 75-07-0	Usage ban
Acetylacetone 110-13-4	Usage ban
Alkali sulphides and alkaline earth sulphides various	Usage ban
Allylanisole 140-67-0	Usage ban
Aloe Vera, non-Decolorized Whole Leaf Extract <sup>8</sup> various	Usage ban
<b>Alpha-hydroxy acids (AHAs)</b> AHAs including, but not limited to:	
Alpha-hydroxycaprylic acid -	10%, with a pH $\geq$ 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	
Mandelic acid 90-64-2	
Mixed fruit acid -	
Tri-alpha hydroxy fruit acids -	
Triple fruit acid -	

<sup>8</sup> 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 Barbadosensis Miller plant

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
In all products (including skin products without SPF)	≥3% specific label requirements <sup>9</sup>  > 0.5% specific label requirements <sup>10</sup>
Skin products without SPF	2.5% - 10% Interval with specific label requirements <sup>9</sup>
<b>Aluminium chloride 7446-70-0</b>	
≤ 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 <sup>11</sup>
In deodorant and antiperspirant, in aerosol dispensers	Usage ban
<b>Aluminium chlorohydrate, and its associated complexes Various, e.g.:</b>	
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 <sup>11</sup>
In aerosol dispenser	Specific label requirements <sup>11</sup>
<b>Aminophylline 317-34-0</b>	Usage ban
<b>Ammonia 7664-41-7 / 1336-21-6</b>	5%
<b>Amylvinylcarbinyl acetate 2442-10-6</b>	0.3%
<b>Arachis hyogaea (peanut) oil/extracts 8002-03-7</b>	Usage ban
<b>Areca catechu seed extract 89957-52-8</b>	Usage ban
<b>Azelaic acid 123-99-9</b>	Usage ban

<sup>9</sup> 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.

<sup>10</sup> 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.

<sup>11</sup> 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
<b>Benzophenone</b> 119-61-9	Usage ban
<b>Benzoyl peroxide</b> 94-36-0	Usage ban
<b>BHA</b> 25013-16-5	4.0 mg/day <sup>12</sup>
<b>Bimatoprost</b> 155206-00-1	Usage ban
<b>Bismuth citrate</b> 813-93-4	Usage ban
<b>Bismuth subgallate</b> 99-26-3	Usage ban
<b>Bismuth subnitrate</b> 1304-85-4	Usage ban
<b>Bispyrithione</b> 3696-28-4	Usage ban
<b>Boric acid</b> 11113-50-1	Usage ban
<b>Bromate (BrO<sub>3</sub><sup>-</sup>)</b> Various	Usage ban
<b>Caffeic acid</b> 331-39-5	Usage ban
<b>Calcium Hydroxide</b> 1305-62-0	
Hair straightening products	7%
Other products	Usage ban
<b>Camphor</b> 76-22-2/ 464-49-3	3%
<b>Cetylpyridinium chloride</b> 123-03-5	
Mouthwash products	0.1%
In all other oral hygiene products	0.5%
Skin lotions and creams	0.2%
Anti-perspirant and deodorant	2%
<b>Chloramine T</b> 127-65-1	Usage ban
<b>Chloramine T trihydrate</b> 7080-50-4	Usage ban
<b>Chlorhexidine and its salts</b> 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
<b>Chloride salts of alkali metals</b> 3811-04-9, 7775-09-9	3%
<b>Chlorofluorocarbon propellants (halogenated alkanes)</b> Various	Usage ban
<b>Chlorohydroxy-aluminum allantoinate (Alcloxa)</b>	1%
<b>Cinnamyl anthranilate</b> 87-29-6	Usage ban

<sup>12</sup> Exposure limit.

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
<b>Citrus reticulata leaf oil</b> 8014-17-3 / 8008-31-9	
In leave-on products	0.1%
<b>Cloflucarban</b> 369-77-7	Usage ban
<b>Cocamide DEA</b> 68603-42-9	Usage ban
<b>Colophonium</b> 8050-09-7	Usage ban
<b>Cyanoacrylate</b> 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 <sup>13</sup>
In all other product types	Usage ban
<b>Cyclopentasiloxane</b> 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%
<b>Cysteine</b> 52-90-4	Usage ban
<b>Cysteine HCl</b> 52-89-1	Usage ban
<b>α-Damascone (Cis-Rose-ketone-1)</b> 23726-94-5 / 43052-87-5	0.02%
<b>cis-beta-Damascone</b> 23726-92-3	0.02%
<b>Dequalinium chloride</b> 522-51-0	Usage ban
<b>Dichloromethane (Methylene chloride)</b> 75-09-2	Usage ban
<b>Dichlorophene</b> 97-23-4	Usage ban
<b>Diethylhexyl adipate</b> 103-23-1	
In leave-on products	6%
<b>Diethyl phthalate</b> 84-66-2	
In child appealing and children cosmetic products	0.1%
<b>Diethyl toluamide (DEET)</b> 134-62-3 / 26545-51-7	Usage ban
<b>Dimethyltolylamine</b> 99-97-8	Usage ban
<b>Dipropyl pyridinedicarboxylate</b> 136-45-8	Usage ban
<b>Disodium 5-amino-4-hydroxy-3-(phenylazo) naphathlene-2,7-disulphonate</b> 3567-66-6	3%
<b>D-Pulegone</b> 89-82-7	Usage ban

<sup>13</sup> 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
<b>Ethylbenzene</b> 100-41-4	Usage ban
<b>Ethyl lauroyl arginate hydrochloride</b> 60372-77-2	
When used for other purposes than as a preservative	
In all products	0.8%
<b>Ethyl methacrylate</b> 97-63-2	Usage ban
<b>Eucalyptus oil</b> 8000-48-4	25%
<b>Formaldehyde</b> 50-00-0	
In all products except where originated from Formaldehyde releasers, total content of formaldehyde	Usage ban
<b>Formaldehyde releasers</b> <sup>14</sup> Various, i.e. some preservatives	
In leave-on products	Usage ban
<b>Fragrance allergens</b> Various, see EU Cosmetic Regulation	
As defined in EU Cosmetic Regulation <sup>15</sup>	
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.
<b>2,4-Hexadienal</b> 142-83-6	Usage ban
<b>2-Hexylidene cyclopentanone</b> 17373-89-6	0.06%
<b>Hydrastis Canadensis extract/root extract/powder</b> 84603-60-1	Usage ban
<b>Hydrolyzed carrageenan</b> 53973-98-1	Usage ban
<b>p-Hydroxyanisol</b> 150-76-5	Usage ban
<b>Iris florentina root</b> 90045-89-9	Usage ban
<b>Laureth-8</b> 9002-92-0 / 3055-98-9	2%
<b>Laureth-9</b> 3055-99-0 / 9002-92-0 / 68439-50-9	2%
<b>Laureth-10</b> 9002-92-0 / 6540-99-4 / 68002-97-1	2%
<b>Lithium carbonate</b> 554-13-2	Usage ban

<sup>14</sup> 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).

<sup>15</sup> Regulation (EC) No 1223/2009 on cosmetic products.

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
<b>Lithium hydroxide 1310-65-2</b>	
Hair straightening products	4.5%
Other products	Usage ban
<b>Melaleuca alternifolia leaf oil/extract/powder/water (tea tree) 85085-48-9</b>	
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%
<b>Methacrylic acid 79-41-4</b>	> 5% Limit with specific label requirements <sup>16</sup>
<b>Methyl alcohol 67-56-1</b>	Usage ban
<b>6-Methylcoumarin 92-48-8</b>	Usage ban
<b>Methyl eugenol (1,2-Dimethoxy-4-(2-propenyl)-benzene) 93-15-2</b>	Usage ban
<b>Methylheptadienone 1604-28-0</b>	0.002%
<b>Methyl methacrylate 80-62-6</b>	Usage ban
<b>Methyl n-methyl anthranilate 85-91-6</b> Constitutes the main part of Petitgrain Mandarin oil/Citrus reticulate leaf oil	0.1%
<b>Methyl octyne carbonate 111-80-8</b>	0.002% (when used in combination with methyl 2-octynoate, sum of concentration 0.01%)
<b>Methyl 2-octynoate 111-12-6</b>	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 %))
<b>Methyl pyrrolidone 872-50-4</b>	Usage ban
<b>Methyl salicylate 119-36-8</b>	1%
<b>MIBK 108-10-1</b>	Usage ban
<b>Mixed cresols (and derivatives) 1319-77-3</b>	Usage ban
<b>Myrcene 123-35-3</b>	Usage ban
<b>Nanomaterials Various</b> Nanomaterials for which Article 16 of EU Cosmetic Regulation 1223/2009 apply <sup>17</sup>	Usage ban
<b>N-chloro-p-toluenesulfonamide 144-86-5</b>	Usage ban

<sup>16</sup> 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.

<sup>17</sup> 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
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
<b>Per- and Polyfluoroalkyl Substances (PFAS) Various, e.g.:</b>	
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 -	
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	

Restricted substance CAS number	Limit/Requirement
C6-12 perfluoroalkylethanol -	Usage ban
C6-14 perfluoroalkylethyl acrylate/hema copolymer -	
Dea-perfluorohexyl ethylphosphates -	
Decafluoropentane 138495-42-8	
Diethylaminoethyl methacrylate/hema/perfluorohexylethyl methacrylate crosspolymer -	
Dioctyldodecyl fluoroheptyl citrate -	
Ethyl perfluorobutyl ether 163702-05-4	
Ethyl perfluoroisobutyl ether 163702-06-5	
Hexafluoropropylene/tetrafluoro ethylene 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 -	

Restricted substance CAS number	Limit/Requirement
Perfluorocyclohexylmethanol 28788-68-3	Usage ban
Perfluorodecalin 306-94-5	
Perfluorodimethylcyclohexane 335-27-3	
Perfluoroheptane 335-57-9	
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/behenyl dimethicone -	
Perfluorononylethyl carboxydecyl PEG-10 dimethicone -	
Perfluorononylethyl carboxydecyl PEG-8 dimethicone -	
Perfluorononylethyl dimethicone/methicone copolymer -	
Perfluorononylethyl PEG-8 dimethicone -	
Perfluorononylethyl PEG-8 phenylisopropyl dimethicone -	

Restricted substance CAS number	Limit/Requirement
Perfluorononylethyl stearyl dimethicone	Usage ban
Perfluorooctyl triethoxysilane	
Perfluorooctylethyl triethoxysilane	
Perfluorooctylethyl trimethoxysilane	
Perfluorooctylethyl trisiloxane	
Perfluorooctylethyl/diphenyl dimethicone copolymer	
Perfluoroperhydrobenzyl tetralin	
Perfluoroperhydrofluorene	
Perfluoroperhydrophenanthrene	
Perfluorotetralin	
Polyacrylate-37	
Polyperfluoroethoxymethoxy difluoroethyl PEG diisostearate	
Polyperfluoroethoxymethoxy difluoroethyl PEG ether	
Polyperfluoroethoxymethoxy difluoroethyl PEG ether diisostearate	
Polyperfluoroethoxymethoxy difluoroethyl PEG phosphate	
Polyperfluoroethoxymethoxy difluorohydroxyethyl ether	
Polyperfluoroethoxymethoxy difluoromethyl distearamide/tribehenin PEG-20 esters	
Polyperfluoroethoxymethoxy difluoromethyl ether	
Polyperfluoroethoxymethoxy peg-2 phosphate	
Polyperfluoroisopropyl ether	
Polyperfluoromethylisopropyl ether	
Polyperfluoroperhydrophenanthrene	
Polytetrafluoroethylene acetoxypopyl betaine	
Polysilicone-7	
Polysilicone-10	

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
Polyurethane-26 328389-90-8	Usage ban
Polyurethane-27 328389-91-9	
Polyacrylate-37 -	
Potassium perfluorohexyl ethylphosphate 1224952-82-2	
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 -	
<b>Perillaldehyde 2111-75-3</b>	0.1%
<b>Phenacetin 62-44-2</b>	Usage ban
<b>Pheromones Various</b>	Usage ban
<b>Phthalates except diethyl phthalate (DEP, CAS number 84-66-2) Various, e.g.:</b> Phthalates including, but not limited to:	
Di-isononyl phthalate (DINP) 28553-12-0	Usage ban
Di-n-octyl phthalate (DNOP) 117-84-0	
Di-iso-decyl phthalate (DIDP) 26761-40-0	
<b>Piper methysticum extract (kawa kawa) 9000-38-8 / 84696-40-2</b>	Usage ban
<b>Plastic microbeads<sup>18</sup></b>	
In rinse off products, scrub- and peel products	Usage ban
<b>Propylene glycol t-butyl ether 57018-52-7</b>	Usage ban

<sup>18</sup> Any solid plastic particle that is less than five millimeters in size

Restricted substance CAS number	Limit/Requirement
<b>Prostaglandins and its synthetic derivatives incl. salts and esters</b>	
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 -	
<b>Pueraria mirifica</b>	Usage ban
<b>Resmethrin 10453-86-8</b>	Usage ban
<b>Retinol (vitamin A) 68-26-8 / 11103-57-4 and its esters:</b>	<1% retinol equivalents <sup>19</sup> Specific label requirements <sup>20</sup>
<b>Retinyl acetate 127-47-9</b>	
<b>Retinyl palmitate 79-81-2</b>	
<b>Rose ketone-3 57378-68-4</b>	0.02%
<b>Rose ketone-4 23696-85-7</b>	0.02%

<sup>19</sup> 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.

<sup>20</sup> 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
<b>Salicylic acid 69-72-7</b>	
When used for other purposes than as a preservative	
Products intended for children below 3 years	Usage ban
Oral products and applications that may lead to exposure of the end-user's lungs by inhalation.	Usage ban
Other products	0.5%
<b>Silver and its salts 7440-22-4 / various</b>	
In all products	Specific label requirements <sup>21</sup>
In mouthwash	0.04%
<b>Sodium bromate 7789-38-0</b>	< 600 mg <sup>22</sup>
<b>Sodium o-phenylphenate 132-27-4</b>	Usage ban
<b>Sodium picramate 831-52-7</b>	0.1%
<b>Strontium compounds Various, e.g.:</b>	
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	
<b>Styrene 100-42-5</b>	
<b>Sulindac 38194-50-2</b>	Usage ban
<b>Symphytum spp. (comfrey) except symphytum officinale</b>	Usage ban
<b>Talc 14807-96-6</b>	
In loose powder products for body and hair application	Usage ban
In loose powder products for face application	Usage ban
In child appealing and children cosmetic products	Usage ban
<b>TBHQ 1948-33-0</b>	0.1%
<b>Theophylline 58-55-9</b>	Usage ban

<sup>21</sup> 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.

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

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
<b>Thioacids and their derivatives various</b>	
Products for use around the eye area	Usage ban
In all other types of products	Specific label requirements <sup>21</sup>
<b>Thioglycolic acid and its salts 68-11-1</b>	
Products intended for eyelash waving	Usage ban
<b>Thioglycolic acid, including its salts and esters 68-11-1</b>	
Rinse-off hair products	2%
<b>Thiolactic acid and its salt 79-42-5</b>	
Hair waving or straightening products	8.5% ready for use at pH<9.5, Specific label requirements <sup>23</sup>
Depilatories	5% ready for use at pH 7-12.7, Specific label requirements <sup>23</sup>
Rinse off hair care products	2% ready for use at pH 7-9.5, Specific label requirements <sup>23</sup>
In all other types of products	Usage ban
<b>Thorium dioxide 1314-20-1</b>	Usage ban
<b>Tocopherol 1406-18-4</b>	20%
<b>Tolnaftate 2398-96-1</b>	Usage ban
<b>Toluene 108-88-3</b>	Usage ban
<b>Topiramate -</b>	Usage ban
<b>Tranexamic acid 1197-18-8</b>	
Products for skin application	3%
Products intended to be placed in contact with the mucous membrane	Usage ban
<b>Trans-rose ketone-1 24720-09-0</b>	0.02%
<b>Trans-rose ketone-2 23726-91-2</b>	0.02%
<b>Trans-rose ketone-3 71048-82-3</b>	0.02%
<b>Trans-2-Hexenal 6728-26-3</b>	0.002%
<b>Triclosan 3380-34-5</b>	Usage ban
<b>Tris(n-hydroxyethyl) hexahydrotriazine 4719-04-4</b>	Usage ban
<b>Tyrothricine 1404-88-2</b>	Usage ban
<b>Urea 57-13-6</b>	<10%
<b>Usnic Acid 125-46-2</b>	Usage ban

<sup>23</sup> 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.

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
<b>Zinc phenolsulfonate 127-82-2</b>	
Leave-on products	2%
<b>Zirconium containing complexes Various</b>	
In aerosol package	Usage ban

## 7.2.2 Additional Restrictions for Products to Malaysia

Restricted substance <i>CAS number</i>	Limit/Requirement
<b>Anthranilic acid</b> 2719-08-6	Usage ban
<b>Alkaloids of:</b>	
<b>Piper methysticum</b> 84696-40-2	Usage ban
<b>Pomegranate</b> <i>Various</i>	
<b>Quebracho</b> -	
<b>Barium sulfide</b> 21109-95-5	Usage ban
<b>Bifonazole</b> 60628-96-8	Usage ban
<b>Butyrolactone</b> 96-48-0	Usage ban
<b>Clotrimazole</b> 23593-75-1	Usage ban
<b>Cucurbitacin B</b> 6199-67-3	Usage ban
<b>Cysteamine HCL</b> 156-57-0	Usage ban
<b>Disodium succinoyl glycyrrhetinate</b> 7421-40-1	Usage ban
<b>Dyphylline</b> 479-18-5	Usage ban
<b>Disodium etidronate</b> 7414-83-7	Usage ban
<b>Ethyl ether</b> 60-29-7	Usage ban
<b>Heliotropine</b> 120-57-0	
All products except perfumes and when added as a flavouring agent	Usage ban
<b>Heparin</b> 9005-49-6	Usage ban
<b>Hydrobromic acid</b> 10035-10-6	Usage ban
<b>Ibuprofen</b> 15687-27-1	Usage ban
<b>Itraconazole</b> 84625-61-6	Usage ban
<b>Methylglucamine</b> 6284-40-8	Usage ban
<b>Melatonin</b> 73-31-4	Usage ban
<b>Miconazole nitrate</b> 22832-87-7	Usage ban
<b>Naproxen</b> 22204-53-1	Usage ban
<b>Natamycin</b> 7681-93-8	Usage ban
<b>Phenylacetic acid</b> 103-82-2	Usage ban
<b>Piracetam</b> 7491-74-9	Usage ban
<b>Pyricarbate</b> 1882-26-4	Usage ban
<b>Quinine</b> 130-95-0	Usage ban (unless when used as denaturant)
<b>Ursodiol</b> 128-13-2	Usage ban
<b>Valepotriates in valeriana extracts</b> <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 <sup>24</sup>
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	
Hydrocarbons with a viscosity $\leq 21$ cSt (at 40°C) Various	Non-emulsion product with more than 10% hydrocarbons shall have a child proof container <sup>24</sup>
Hydrogen peroxide 7722-84-1	
Nail hardener products	2%
Other products	Usage ban
Resorcinol 108-46-3	0.1%

<sup>24</sup> 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 USA<sup>25</sup>

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

### 7.2.5 Additional Restrictions for Children Cosmetic Products to USA

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

<sup>25</sup> The requirements stated in this chapter is also valid for Puerto Rico.

<sup>26</sup> 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.

<sup>27</sup> Title 21 of the Code of Federal Regulations.

## 7.2.6 Additional Restrictions for Products to Thailand

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
<b>Aluminium Persulfate 7727-54-0</b> <b>Potassium Persulfate 7727-21-1</b> <b>Sodium Persulfate 7775-27-1</b>	
Hair bleaching products	≤45 % (as persulfate derivate before mixing with hydrogen peroxide). The total persulfate content must not exceed 20 % after mixing persulfate compounds with hydrogen peroxide.
Other products	Usage ban
<b>2-Amino-5-ethylphenol HCl 149861-22-3</b>	
Oxidative hair dye products	≤ 1 %
<b>5-Amino-6-chloro-o-cresol 84540-50-1</b> <b>5-Amino-6-chloro-cresol HCl 80419-48-3</b>	
Oxidative hair dye products	≤ 1 %
<b>Basic Orange 31 97404-02-9</b>	
Oxidative hair dye products	≤ 0.5 %
<b>Botanical ingredients which are not listed in European Commission Cosmetic ingredient database (CosIng) various</b>	Usage ban
<b>Toluene-2,5-diamine and its sulfate salt 95-70-5, 615-50-9</b>	
Oxidative hair dye products	≤ 2 % (as free base) ≤ 3.6 % (as sulfate salt)

## 7.2.7 Additional Restrictions for Products to India

<b>Restricted substance CAS number</b>	<b>Limit/Requirement</b>
<b>Aluminium fluoride 7784-18-1</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Ammonium fluoride 12123-0108</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Ammonium Fluorosilicate 16919-19-0</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Ammonium monofluorophosphate 20859-38-5/66115-19-3</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Calcium fluoride 7789-75-5</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. Must not exceed 0.10 %
<b>Calcium monofluorophosphate 7789-72-2</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Cetylamine hydrofluoride 3151-59-5</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Magnesium fluoride 7783-40-6</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Magnesium fluorosilicate 16949-65-8</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>N,N',N'-Tris(polyoxyethylene)-N-hexadecylpropylenediamine dihydrofluoride -</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Nicomethanol hydrofluoride 62756-44-9</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Octadecenyl-ammonium fluoride 36505-83-6</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %

<b><i>Restricted substance CAS number</i></b>	<b><i>Limit/Requirement</i></b>
<b>Potassium fluoride 7789-23-3</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Potassium fluorosilicate 16871-90-2</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Potassium monofluorophosphate 14104-28-0</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Sodium fluoride 7681-49-4</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Sodium fluorosilicate 144055-55-0</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Sodium fluorosilicate 144055-55-0</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>Stannous fluoride 7783-47-3</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %
<b>3-(N-Hexadecyl-N-2-hydroxyethyl ammonio) propylbis (2-hydroxyethyl) ammonium difluoride -</b>	
Oral products	0.10 % calculated as F. When mixed with other permitted fluorine compounds, total F conc. must not exceed 0.10 %

## 8. Limitations of Volatile Organic Compounds (VOCs) for Cosmetic Products in the USA<sup>28</sup>, Canada and Hong Kong

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.<sup>29</sup>

*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.

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

<sup>29</sup> 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, Canada and Hong Kong**

Product Type <sup>30</sup>	VOC Limitations (weight %)		
	USA	Canada	Hong Kong
Antiperspirants Aerosol	Not applicable	60 HVOC	Not restricted
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	Not restricted
Deodorant	1) Alcohol (CAS 64-17-5) is not defined as MVOC in deodorant. 2) The combined perfume ingredients and colorants concentration C% will contribute to the calculated VOC concentration by (C-2) %.	Not restricted	Not restricted
Deodorant Non-Aerosol	0 HVOC <sup>31</sup> 0 MVOC <sup>32</sup> Other VOCs not restricted		
Deodorant Aerosol	0 HVOC <sup>31</sup> 10 MVOC <sup>32</sup> Other VOCs not restricted	20 HVOC <sup>31</sup> MVOC <sup>32</sup> not restricted Other VOCs not restricted	Not restricted
Hairspray	55	80	55
Hair Shine	55	Not restricted	Not restricted
Hair Mousse	6	16	Not restricted
Hair Styling Product			
Gel	2	6	Not restricted
Aerosol	6	Not restricted	
Pump spray	6		
All other forms	2		
Nail Polish Remover	1	85	Not restricted
Personal Fragrance Product	<i>Note: perfume ingredient is NOT defined as VOC in personal fragrance products</i>		
Product with ≤ 20% fragrance	75	Not restricted	Not restricted
Product with > 20% fragrance	65		
Shaving Cream	5	5	Not restricted
Shaving Gel	4	Not restricted	Not restricted
Temporary Hair Colour Aerosol	55	Not restricted	Not restricted

<sup>30</sup> For definition of different product type see Table 4.

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

<sup>32</sup> 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
<b>Volatile organic compound for usage in cosmetic products</b>	
For the purpose of this <i>Table 2.</i> :	
<ul style="list-style-type: none"> <li>• Compound = a molecule of definite chemical formula and isometric structure;</li> <li>• Mixture = a substance comprised of two or more compounds.</li> </ul>	
Compound or mixture that contains at least one carbon atom, which is <b>NOT</b> listed in the <i>Table 3.</i> , and meets one or more of the following:	
<ul style="list-style-type: none"> <li>• has a vapor pressure more than 0.1mm Hg at 20 °C;</li> <li>• 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;</li> <li>• is a chemical compound with a boiling point lower than 216 °C;</li> <li>• is a weight percent of a chemical mixture that boils below 216 °C.</li> </ul>	
<b>Examples of volatile organic compound for usage in cosmetic products</b>	
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

<b>Volatile Organic Compound</b>	<b>CAS number</b>
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
Ethyl 2-methylbutyrate	7452-79-1

<b>Volatile Organic Compound</b>	<b>CAS number</b>
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
Limonene	138-86-3 / 5989-27-5
M-aminophenol	591-27-5

<b>Volatile Organic Compound</b>	<b>CAS number</b>
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
Terpinolene	586-62-9
Tetrahydrofurfuryl methacrylate	2455-24-5

<b>Volatile Organic Compound</b>	<b>CAS number</b>
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**

<b>Volatile Organic Compound</b>	<b>CAS number</b>
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 <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
CI 10316 <sup>36</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 12085 <sup>36</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm

<sup>33</sup> 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”.

<sup>34</sup> 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”.

<sup>35</sup> 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.

<sup>36</sup> 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 <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 15510 <sup>36</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 15850 <sup>36,37</sup>	Red		X			E180 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
	Red		X			E180 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 15880	Red				X	See also 21 CFR 74.2334. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 15985 <sup>36</sup>	Yellow		X			E 110 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm

<sup>37</sup> 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 <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
CI 16035	Red	X				E 129 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 17200 <sup>36</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 19140 <sup>36</sup>	Yellow	X				E 102 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 40800	Orange	X				E160a (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2095. For products to South Korea: Usage ban. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 42090 <sup>37</sup>	Blue 4				X	E133 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm

Permitted Colorants <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
	Blue 1	X				E133 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 45350 <sup>37</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 45370 <sup>36</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 45380 <sup>36,37</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm

Permitted Colorants <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 45410 <sup>36,37</sup>	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
	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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 47000	Yellow				X	See also 21 CFR 74.2711. For products to South Korea: Lakes of Strontium, Barium or Zirconium are prohibited. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 47005	Yellow		X			E 104 (Commission Regulation (EU) No 231/2012). See also 21 CFR 74.2710. All lakes are permitted as the ordinary colour, see 21 CFR 82.1051. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm

Permitted Colorants <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 60730	Violet				X	See also 21 CFR 74.2602a. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 75120	Orange	X				E 160 b (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2030. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 75130	Orange	X				E 160 a (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2095. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 75170	White	X				See also 21 CFR 73.2329. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 75470	Red	X				E 120 (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2087.

Permitted Colorants <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
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 (Commission Regulation (EU) No 231/2012). *See also 21 CFR 73.2125. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
CI 77000	White			X		E 173 (Commission Regulation (EU) No 231/2012). 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. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
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 77400 <sup>37</sup>	Brown	X				See also 21 CFR 73.2646.
	Brown	X				See also 21 CFR 73.2647.
CI 77489	Orange	X				See also 21 CFR 73.2250.
CI 77491	Red	X				E 172 (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2250.
CI 77492	Yellow	X				E 172 (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2250.
CI 77499	Black	X				E 172 (Commission Regulation (EU) No 231/2012). 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 (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2500.

Permitted Colorants <sup>33</sup>	Colour	Field of Application <sup>34</sup>				Other Requirements <sup>35</sup>
		1	2	3	4	
<b>CI 77891</b>	White	X				E 171(Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2575.
<b>CI 77947</b>	White	X				See also 21 CFR 73.2991.
<b>Caramel</b>	Brown	X				E 150 (Commission Regulation (EU) No 231/2012). See also 21 CFR 73.2085. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm
<b>Mica</b>	Opaque	X				See also 21 CFR 73.2496. For products to India: As ≤ 2 ppm, Pb ≤ 20 ppm, Sum of heavy metals (Sb, As, Cd, CrVI, Co, Pb, Hg, Ni) ≤ 100 ppm

## 10. Permitted UV Filters in Cosmetic Products<sup>38</sup>

UV filters = ingredients which protects the skin/hair/nails from the harmful effects UV-light

UV absorbers = Ingredients which protects the cosmetic product from the harmful effects of UV-light

This chapter is only applicable to UV filters.

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

<sup>38</sup> 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.

<sup>39</sup> 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 CAS number	Conditions		
	Maximum concentration	Field of application	
<b>Benzoic acid</b> 65-85-0 <b>Sodium Benzoate</b> 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	
<b>Salts of Benzoic acid</b> (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	
<b>Propionic acid and its salts</b> (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	
<b>Salicylic acid and its salts</b> <sup>40</sup>	<b>Salicylic acid</b> <sup>40</sup> 69-72-7	0.5% (as acid)	All products except <ul style="list-style-type: none"> <li>- products for children under 3 years of age;</li> <li>- oral products;</li> <li>- in applications that may lead to exposure of the end-user's lungs by inhalation.</li> </ul> Specific labelling requirement <sup>40</sup>
	<b>Calcium salicylate, magnesium salicylate, MEA- salicylate, sodium salicylate, potassium salicylate, TEA- salicylate),</b> 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 <sup>40</sup>

<sup>40</sup> Specific label requirement is according to the EU cosmetic regulation

Permitted preservative <i>CAS number</i>	Conditions	
	Maximum concentration	Field of application
<b>Sorbic acid and its salts</b> (calcium sorbate, sodium sorbate, potassium sorbate) <i>110-44-1, 7492-55-9, 7757-81-5, 24634-61-5</i>	0.6% (as acid)	All products
<b>Inorganic sulphites and hydrogensulphites</b> (sodium sulfite, ammonium bisulfite, ammonium sulfite, potassium sulfite, potassium hydrogen sulfite, sodium bisulfite, sodium metabisulfite, potassium metabisulfite) <i>7757-83-7, 10192-30-0, 10196-04-0, 10117-38-1, 7773-03-7, 7631-90-5, 7681-57-4, 16731-55-8</i>	0.2% (as free SO <sub>2</sub> )	All products
<b>Chlorobutanol</b> <i>57-15-8</i>	0.5%	All products except aerosol dispensers (sprays) Specific labelling requirement <sup>40</sup>
<b>4-Hydroxybenzoic acid</b> and its Methyl- and Ethylesters and their salts (methylparaben, potassium ethylparaben, potassium paraben, sodium methylparaben, sodium ethylparaben, ethylparaben, sodium paraben, potassium methylparaben, calcium paraben) <i>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</i>	0.4 % (as acid) for single ester 0.8 % (as acid) for mixtures of esters	All products
<b>Butylparaben</b> and its salts (sodium butylparaben, potassium butylparaben) <i>94-26-8, 36457-20-2, 38566-94-8</i> <b>Propylparaben</b> and its salts (sodium propylparaben, potassium propylparaben) <i>94-13-3, 35285-69-9, 84930-16-5</i>	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 labelling requirement <sup>41</sup>
<b>Dehydroacetic acid</b> <i>520-45-6, 16807-48-0</i> <b>Sodium dehydroacetate</b> <i>4418-26-2</i>	0.6% (as acid)	All products except aerosol dispensers (sprays)
<b>Formic acid</b> <i>64-18-6</i> <b>Sodium formate</b> <i>141-53-7</i>	0.5% (as acid)	All products
<b>Dibromohexamidine Isethionate</b> <i>93856-83-8</i>	0.1%	All products
<b>Undecylenic acid and its salts (potassium undecylenate, sodium undecylenate, calcium</b>	0.2% (as acid)	Rinse-off products

<sup>41</sup> Specific label requirement is according to the EU cosmetic regulation.

Permitted preservative CAS number	Conditions	
	Maximum concentration	Field of application
<b>undecylenate, TEA-undecylenate, MEA-undecylenate)</b> 112-38-9, 6159-41-7, 3398-33-2, 1322-14-1, 84471-25-0, 56532-40-2		
<b>Hexetidine</b> 141-94-6	0.1%	Rinse-off products
<b>5-Bromo-5-nitro-1,3-dioxane</b> 30007-47-7	0.1%	Rinse-off products Specific labelling requirement <sup>41</sup>
<b>2-Bromo-2-nitropropane-1,3-diol</b> 52-51-7	0.1%	All products Specific labelling requirement <sup>41</sup>
<b>Dichlorobenzyl Alcohol</b> 1777-82-8	0.15%	All products
<b>Triclocarban</b> <sup>42</sup> 101-20-2	0.2%	All products
<b>Chloroxylenol</b> 88-04-0	0.5%	All products
<b>Imidazolidinyl urea</b> 39236-46-9	0.6%	All products
<b>Phenoxyethanol</b> 122-99-6	1.0%	All products
<b>Methenamine</b> 100-97-0	0.15%	All products
<b>Climbazole</b> 38083-17-9	0.2%	Hair lotions
	0.2%	Face creams
	0.2%	Foot care products
	0.5%	Rinse-off shampoo
<b>DMDM Hydantoin</b> 6440-58-0	0.6%	All products
<b>Benzyl alcohol</b> 100-51-6	1.0%	All products
<b>1-Hydroxy-4-methyl-6- (2,4,4-trimethylpentyl)-2-pyridon, Piroctone Olamine</b> 50650-76-5, 68890-66-4	1.0%	Rinse-off products
	0.5%	Leave-on products
<b>Bromochlorophene</b> 15435-29-7	0.1%	All products
<b>o-Cymen-5-ol</b> 3228-02-2	0.1%	All products
<b>Chlorhexidine, Chlorhexidine diacetate, Chlorhexidine digluconate, Chlorhexidine dihydrochloride</b> 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
<b>Phenoxyisopropanol</b> 770-35-4	1.0%	Rinse-off products
<b>Behentrimonium chloride, Cetrimonium bromide, Cetrimonium chloride, Laurrimonium bromide, Laurrimonium</b>	0.1%	All products except hair products

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

Permitted preservative CAS number	Conditions	
	Maximum concentration	Field of application
<b>Chloride, Steartrimonium bromide, Steartrimonium chloride</b> 17301-53-0, 57-09-0, 112-02-7, 1119-94-4, 112-00-5, 1120-02-1, 112-03-8		
<b>Dimethyl Oxazolidine</b> 51200-87-4	0.1%	pH > 6
<b>Diazolidinyl Urea</b> 78491-02-8	0.5%	All products
<b>Hexamidine, Hexamidine diisethionate, Hexamidine diparaben, Hexamidine paraben</b> 3811-75-4, 659-40-5, 93841-83-9, -	0.1%	All products
<b>Glutaral</b> 111-30-8	0.1%	All products except aerosols (sprays) Specific labelling requirement <sup>43</sup>
<b>Chlorphenesin</b> 104-29-0	0.3%	All products
<b>Benzethonium Chloride</b> 121-54-0	0.1%	All products except oral leave-on products or products used on mucous membranes
<b>Benzalkonium chloride, benzalkonium bromide, benzalkonium saccharinate</b> 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 labelling requirement <sup>43</sup>
	0.05% (as benzalkonium chloride)	Leave-on products Specific labelling requirement <sup>43</sup>
<b>Benzylhemiformal</b> 14548-60-8	0.15%	Rinse-off products
<b>Iodopropynyl butylcarbamate</b> 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 labelling requirement <sup>44</sup>
	Leave-on product (b): 0.01%	
	Deodorant, antiperspirant (c): 0.0075%	
<b>Ethyl Lauroyl Arginate HCl</b> 60372-77-2	0.4%	All products except oral products, lip products and spray products

<sup>43</sup> Specific label requirement is according to the EU cosmetic regulation.

<sup>44</sup> 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
<b>Antimony (Sb)</b>	Extractable amount: DIN EN 71-3 with sweat simulant of DIN 53160	1 mg/kg
	Total content: ISO 21392 (ICP/MS)	1 mg/kg
<b>Arsenic (As)</b>	Total content: ISO 21392 (ICP/MS)	1 mg/kg
<b>Cadmium (Cd)</b>	Total content: ISO 21392 (ICP/MS)	1 mg/kg
<b>Chromium (Cr)</b>	Total content: ISO 21392 (ICP/MS)	1 mg/kg
<b>Chromium (Cr<sup>6+</sup>)</b>	Photometry/IC	Matrix dependent
<b>Cobalt (Co)</b>	Total content: ISO 21392 (ICP/MS)	1 mg/kg
<b>Cyclotetrasiloxane (D4)</b>	GC-MS analysis	3 mg/kg
<b>Diethylene glycol (DEG)</b>	GC-MS analysis	500 mg/kg
<b>Formaldehyde</b>	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
<b>Fragrance allergens</b>	EN 16274	5 mg/kg
<b>Lead (Pb)</b>	Total content: ISO 21392 (ICP/MS)	1 mg/kg
<b>Mercury (Hg)</b>	Total content: Microwave digestion with HNO <sub>3</sub> followed by ICP-MS	0.1 mg/kg
<b>Methylene chloride</b>	GC-MS analysis after extraction with ethylacetate	1 mg/kg
<b>Nickel (Ni)</b>	Total content: ISO 21392 (ICP/MS)	1 mg/kg
<b>2-Nitro-p-phenylene diamine</b>	GC-MS analysis	Matrix dependent
<b>4-Nitro-o-phenylene diamine</b>	GC-MS analysis	Matrix dependent
<b>Nitrosamines</b>	GC-MS analysis	10-50 µg/kg
<b>Nonylphenol ethoxylates (NPE)</b>	LC-MS analysis	40 mg/kg
<b>Octylphenol ethoxylates (OPE)</b>	LC-MS analysis	40 mg/kg
<b>Phthalates (except diethylphthalate)</b>	GC-MS analysis after extraction with THF/methanol	25 mg/kg
<b>Residual solvents</b>	GC-MS-Headspace analysis	1 mg/kg
<b>Silver (Ag) and its salts</b>	Total content: Microwave digestion with HNO <sub>3</sub> followed by ICP-MS	1 mg/kg
<b>Triclosan</b>	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*.