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## ANNEX VI

## LIST OF UV FILTERS ALLOWED IN COSMETIC PRODUCTS

Reference number	Substance identification				Conditions			Wording of conditions of use and warnings
	Chemical name/INN/XAN	Name of Common Ingredients Glossary	CAS number	EC number	Product type, body parts	Maximum concentration in ready for use preparation	Other	
a	b	c	d	e	f	g	h	i
▼ <u>M1</u> 1								
▼ <u>B</u> 2	<i>N,N,N</i> -Trimethyl-4-(2-oxoborn-3-ylidene-methyl) anilinium methyl sulfate	Camphor Benzalkonium Methosulfate	52793-97-2	258-190-8		6 %		
3	Benzoic acid, 2-hydroxy-, 3,3,5-trimethylcyclohexyl ester/Homosalate	Homosalate	118-56-9	204-260-8		10 %		
▼ <u>M19</u> 4	2-Hydroxy-4-methoxy-benzophenone/Oxybenzone	Benzophenone-3	131-57-7	205-031-5		6 %	Not more than 0,5 % to protect product formulation	Contains Benzophenone-3 (!)
▼ <u>B</u> 5	Moved or deleted							
6	2-Phenylbenzimidazole-5-sulfonic acid and its potassium, sodium and triethanolamine salts/Ensulizole	Phenylbenzimidazole Sulfonic Acid	27503-81-7	248-502-0		8 %(as acid)		
7	3,3'-(1,4-Phenylenedimethylene) bis(7, 7-dimethyl-2-oxobicyclo-[2.2.1]hept-1-yl-methanesulfonic acid) and its salts/Ecamsule	Terephthalylidene Dicamphor Sulfonic Acid	92761-26-7, 90457-82-2	410-960-6		10 %(as acid)		

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8	1-(4-tert-Butylphenyl)-3-(4-methoxyphenyl)propane-1,3-dione/ Avobenzone	Butyl Methoxydibenzoylmethane	70356-09-1	274-581-6		5 %		
9	alpha-(2-Oxoborn-3-ylidene)-toluene-4-sulphonic acid and its salts	Benzylidene Camphor Sulfonic Acid	56039-58-8			6 % (as acid)		
10	2-Cyano-3,3-diphenyl acrylic acid, 2-ethylhexyl ester/Octocrylene	Octocrylene	6197-30-4	228-250-8		10 % (as acid)		
11	Polymer of N-{(2 and 4)-[(2-oxoborn-3-ylidene)methyl]benzyl} acrylamide	Polyacrylamidomethyl Benzylidene Camphor	113783-61-2			6 %		
12	2-Ethylhexyl 4-methoxycinnamate/ Octinoxate	Ethylhexyl Methoxycinnamate	5466-77-3	226-775-7		10 %		
13	Ethoxylated ethyl-4-aminobenzoate	PEG-25 PABA	116242-27-4			10 %		
14	Isopentyl-4-methoxycinnamate/Amiloxate	Isoamyl p-Methoxycinnamate	71617-10-2	275-702-5		10 %		
15	2,4,6-Trianiilino-(p-carbo-2'-ethylhexyl-1'-oxy)-1,3,5-triazine	Ethylhexyl Triazone	88122-99-0	402-070-1		5 %		

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16	Pheno1,2-(2H-benzotriazol-2-yl)-4-methyl-6-(2-methyl-3-(1,3,3,3-tetramethyl-1-(trimethylsilyl)oxy)-disiloxanyl)propyl)	Drometrizole Trisiloxane	155633-54-8			15 %		
17	Benzoic acid, 4,4-((6-(((1,1-dimethylethyl)amino)carbonyl)phenyl)amino)-1,3,5-triazine-2,4-diyl)diimino)bis-, bis (2-ethylhexyl) ester/Isco-trizinol (USAN)	Diethylhexyl Butamido Triazone	154702-15-5			10 %		
18	3-(4-Methylbenzylidene)-d1 camphor/Enzacamene	4-Methylbenzylidene Camphor	38102-62-4/ 36861-47-9	- / 253-242-6		4 %		
▼ <b>M10</b> —								
▼ <b>B</b>								
20	2-Ethylhexyl salicylate/ Octisalate	Ethylhexyl Salicylate	118-60-5	204-263-4		5 %		
21	2-Ethylhexyl 4-(dimethylamino)benzoate/Padimate O (USAN: BAN)	Ethylhexyl Dimethyl PABA	21245-02-3	244-289-3		8 %		

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a	b	c	d	e	f	g	h	i
22	2-Hydroxy-4-methoxy-benzophenone-5-sulfonic acid and its sodium salt/Sulisobenzone	Benzophenone-4, Benzophenone-5	4065-45-6/ 6628-37-1	223-772-2 / -		5 % (as acid)		
<b>▼ M24</b>								
23	2,2'-Methylene- bis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol)/Bisotrizole	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	103597-45-1	403-800-1		10 % (5)		
23a	2,2'-Methylene- bis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol)/Bisotrizole	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano)	103597-45-1	403-800-1		10 % (5)	Not to be used in applications that may lead to exposure of the end user's lungs by inhalation. Only nanomaterials having the following characteristics are allowed: — Purity $\geq$ 98,5 %, with 2,2'-methylene-bis-(6(2H-benzotriazol-2-yl)-4-(isooctyl)phenol) isomer fraction not exceeding 1,5 %; — Solubility < 5 ng/L in water at 25 °C; — Partition coefficient (Log Pow): 12,7 at 25 °C; — Uncoated;	

▼ **M24**

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							— Median particle size D50 (50 % of the number below this diameter): $\geq 120$ nm of mass distribution and/or $\geq 60$ nm of number size distribution.	
▼ <b>B</b> 24	Sodium salt of 2,2'-bis(1,4-phenylene)-1H-benzimidazole-4,6-disulfonic acid) / Bisdisulizole disodium (USAN)	Disodium Phenyl Dibenzimidazole Tetrasulfonate	180898-37-7	429-750-0		10 % (as acid)		
25	2,2'-(6-(4-Methoxyphenyl)-1,3,5-triazine-2,4-diyl)bis(5-((2-ethylhexyl)oxy)phenol) / Bemotrizinol	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	187393-00-6			10 %		
26	Dimethicodiethylbenzalmalonate	Polysilicone-15	207574-74-1	426-000-4		10 %		
▼ <b>M16</b> 27	Titanium dioxide (?)	Titanium Dioxide	13463-67-7/ 1317-70-0/ 1317-80-2	236-675-5/ 215-280-1/ 215-282-2		25 % (*)		

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27a	Titanium dioxide (2)	Titanium Dioxide (nano)	13463-67-7/ 1317-70-0/ 1317-80-2	236-675-5/ 215-280-1/ 215-282-2		25 % (4)	<p>Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation.</p> <p>Only nanomaterials having the following characteristics are allowed:</p> <ul style="list-style-type: none"> <li>— purity <math>\geq</math> 99 %,</li> <li>— rutile form, or rutile with up to 5 % anatase, with crystalline structure and physical appearance as clusters of spherical, needle, or lanceolate shapes,</li> <li>— median particle size based on number size distribution <math>\geq</math> 30 nm,</li> <li>— aspect ratio from 1 to 4,5, and volume specific surface area <math>\leq</math> 460 m<sup>2</sup>/cm<sup>3</sup>,</li> <li>— coated with Silica, Hydrated Silica, Alumina, Aluminium Hydroxide, Aluminium Stearate, Stearic Acid, Trimethoxycaprylylsilane, Glycerin, Dimethicone, Hydrogen Dimethicone, Simethicone,</li> </ul> <p>or coated with one of the following combinations:</p> <ul style="list-style-type: none"> <li>— Silica at a maximum concentration of 16 % and Cetyl Phosphate at a maximum concentration of 6 %,</li> </ul>	<p>For face products containing Titanium Dioxide (nano) coated with the combination Alumina and Manganese Dioxide:</p> <p>Not to be used on the lips.</p>

▼ **M32**

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a	b	c	d	e	f	g	h	i
							<ul style="list-style-type: none"> <li>— Alumina at a maximum concentration of 7 % and Manganese Dioxide at a maximum concentration of 0,7 % (not to be used in lip products),</li> <li>— Alumina at a maximum concentration of 3 % and Triethoxycaprylylsilane at a maximum concentration of 9 %,</li> <li>— photocatalytic activity <math>\leq</math> 10 % compared to corresponding non-coated or non-doped reference,</li> <li>— nanoparticles are photostable in the final formulation.</li> </ul>	
▼ <b>M1</b> 28	Benzoic acid, 2-[-4-(diethylamino)-2-hydroxybenzoyl]-Hexylester	Diethylamino Hydroxy benzoyl Hexyl Benzoate	302776-68-7	443-860-6		10 %		
▼ <b>M6</b> ▼ <b>C2</b> 29	1,3,5-Triazine, 2,4,6-tris[1,1'-biphenyl]-4-yl-, including as nanomaterial	Tris-biphenyl triazine Tris-biphenyl triazine (nano)	31274-51-8	—		10 %	<p>Not to be used in sprays.</p> <p>Only nanomaterials having the following characteristics are allowed:</p> <ul style="list-style-type: none"> <li>— median primary particle size &gt; 80 nm;</li> <li>— Purity <math>\geq</math> 98 %;</li> <li>— Uncoated</li> </ul>	
▼ <b>M12</b> 30	Zinc oxide	Zinc Oxide	1314-13-2	215-222-5		25 % (3)	Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation.	

▼ M12

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30a	Zinc oxide	Zinc Oxide (nano)	1314-13-2	215-222-5		25 % (³)	<p>Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation.</p> <p>Only nanomaterials having the following characteristics are allowed:</p> <ul style="list-style-type: none"> <li>— purity <math>\geq</math> 96 %, with wurtzite crystalline structure and physical appearance as clusters that are rod-like, star-like and/or isometric shapes, with impurities consisting only of carbon dioxide and water, whilst any other impurities are less than 1 % in total,</li> <li>— median diameter of the particle number size distribution D50 (50 % of the number below this diameter) &gt; 30 nm and D1 (1 % below this size) &gt; 20 nm,</li> <li>— water solubility &lt; 50 mg/L</li> <li>— uncoated, or coated with triethoxycaprylsilane, dimethicone, dimethoxydiphenylsilanetriethoxycaprylsilane cross-polymer, or octyl triethoxy silane.</li> </ul>	



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31	3,3'-(1,4-Phenylene)bis(5,6-diphenyl-1,2,4-triazine)	Phenylene Bis-Diphenyl-triazine	55514-22-2	700-823-1		5 %	Not to be used in applications that may lead to exposure of the end user's lungs by inhalation.	

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(<sup>1</sup>) Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.

► **M16** (<sup>2</sup>) For use as a colorant, see Annex IV, No 143. ◀

► **M12** (<sup>3</sup>) In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g. ◀

► **M16** (<sup>4</sup>) In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g. ◀

► **M24** (<sup>5</sup>) In case of combined use of Methylene Bis-Benzotriazolyl Tetramethylbutylphenol and Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano), the sum shall not exceed the limit given in column g. ◀