

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	
2	N,N,N-Trimethyl-4-(2-oxoborn-3-ylidenemethyl) 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 %		
4	2-Hydroxy-4-methoxybenzophenone/Oxybenzone	Benzophenone-3	131-57-7	205-031-5		6 %	Not more than 0,5 % to protect product formulation	Contains Benzophenone-3 (1)
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	Terephthalidene Dicamphor Sulfonic Acid	92761-26-7, 90457-82-2	410-960-6		10 % (as acid)		
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/Octocrilene	Octocrilene	6197-304	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	5466-773	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 %		
16	Phenol,2-(2H-benzotriazol-2-yl)-4-methyl-6-(2-methyl-3-(1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-disiloxanyl)propyl)	Drometrizole Trisiloxane	155633-54-8			15 %		

17	Benzoic acid, 4,4-((6-((4-(((1,1-dimethylethyl)amino)carbonyl)phenyl)amino)-1,3,5-triazine-2,4-diyl)diimino)bis-, bis (2-ethylhexyl) ester/Iscotrizinol (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 %		
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 %		
22	2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid and its sodium salt/Sulisobenzone	Benzophenone-4, Benzophenone-5	4065-456/6628-37-1	223-772-2/-		5 % (as acid)		
23	2,2'-Methylene-bis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethyl-butyl)phenol) / Bisoctrizole	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	103597-45-1	403-800-1		10 % (2)		
23a	2,2'-Methylene- bis(6- (2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol)/Bisoctrizole	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano)	103597-45-1	403-800-1		10 % (2)	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; — 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.	
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 %		
27	Titanium dioxide (3)	Titanium Dioxide	13463-67-7/1317-70-	236-675-5/205-280-		25 % (4)		

			0/1317-80-2	1/215-282-2			
27a	Titanium dioxide (3)	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. Only nanomaterials having the following characteristics are allowed:</p> <ul style="list-style-type: none"> — purity \geq 99 %, — rutile form, or rutile with up to 5 % anatase, with crystalline structure and physical appearance as clusters of spherical, needle, or lanceolate shapes, — median particle size based on number size distribution \geq 30 nm, — aspect ratio from 1 to 4,5, and volume specific surface area \leq 460 m²/cm³, — coated with Silica, Hydrated Silica, Alumina, Aluminium Hydroxide, Aluminium Stearate, Stearic Acid, Trimethoxycaprylylsilane, Glycerin, Dimethicone, Hydrogen Dimethicone, Simethicone, or coated with one of the following combinations: <ul style="list-style-type: none"> —Silica at a maximum concentration of 16 % and Cetyl Phosphate at a maximum concentration of 6 %, —Alumina at a maximum concentration of 7 % and Manganese Dioxide at a maximum concentration of 0,7 % (not to be used in lip products), —Alumina at a maximum concentration of 3 % and Triethoxycaprylylsilane at a maximum concentration of 9 %, — photocatalytic activity \leq 10 % compared to corresponding non-coated or non-doped reference, — nanoparticles are photostable in the final formulation.
28	Benzoic acid, 2-[-4-(diethylamino)-2-hydroxybenzoyl]-. Hexylester	Diethylamino Hydroxy benzoyl Hexyl Benzoate	302776-68-7	443-860-6		10 %	
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"> — median primary particle size > 80 nm; — Purity \geq 98 %; — Uncoated

30	Zinc oxide	Zinc Oxide	1314-13-2	215-222-5		25 % (5)	Not to be used in applications that may lead to exposure of the end user's lungs by inhalation.
30a	Zinc oxide	Zinc Oxide (nano)	1314-13-2	215-222-5		25 % (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 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, — median diameter of the particle number size distribution D50 (50 % of the number below this diameter) $>$ 30 nm and D1 (1 % below this size) $>$ 20 nm, — water solubility $<$ 50 mg/L — uncoated, or coated with triethoxycaprylsilane, dimethicone, dimethoxydiphenylsilanetriethoxycaprylsilane cross-polymer, or octyl triethoxy silane.
31	3,3'-(1,4-Phenylene)bis(5,6-diphenyl-1,2,4-triazine)	Phenylene Bis-Diphenyltriazine	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.

- (1) Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.
- (2) 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.
- (3) For use as a colorant, see Annex IV, No. 143
- (4) In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g.
- (5) In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.