

Annex VI, Last update: 27/11/2022

LIST OF UV FILTERS ALLOWED IN COSMETIC PRODUCTS

Reference number	Substance identification				Conditions			Wording of conditions of use and warnings	Update date
	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 sulphate	CAMPHOR BENZALKONIUM METHOSULFATE	52793-97-2	258-190-8		6%			15/10/2010
3	Benzoic acid, 2-hydroxy-, 3,3,5-trimethylcyclohexyl ester / Homosalate	HOMOSALATE	118-56-9	204-260-8	Face products with the exception of propellant spray products	7,34 %	From 1 January 2025 cosmetic products containing that substance and not complying with the conditions shall not be placed on the Union market. From 1 July 2025 cosmetic products containing that substance and not complying with the conditions shall not be made available on the Union market.		11/11/2022
4	2-Hydroxy-4-methoxybenzophenone / Oxybenzone	BENZOPHENONE-3	131-57-7	205-031-5	a) Face products, hand products, and lip products, excluding propellant and pump spray products b) Body products, including propellant and pump spray products c) Other products	a) 6% b) 2,2% c) 0,5% Footnote 1: However, cosmetic products containing '2-Hydroxy-4-methoxy-benzophenone/Oxybenzone' and complying with the restrictions set out in	a) If used at 0,5 % to protect product formulation, the levels used as UV filter must not exceed 5,5 %. b) If used at 0,5 % to protect product formulation, the levels used as UV filter must not exceed 1,7 %.	For a) and b): Contains Benzophenone-3 (*) Footnote (*): Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.	29/08/2022

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						Regulation (EC) No 1223/2009 as applicable on 27 July 2022 may be placed on the Union market until 28 January 2023 and be made available on the Union market until 28 July 2023.			
6	2-Phenylbenzimidazole-5-sulphonic acid and its potassium, sodium and triethanolamine salts / Ensulizole	PHENYLBENZIMIDAZOLE SULFONIC ACID	27503-81-7	248-502-0		8%(as acid)			08/03/2011
7	3,3'-(1,4-Phenylenedimethylene) bis (7,7-dimethyl-2-oxobicyclo-[2.2.1] hept-1-ylmethanesulfonic acid) and its salts / Ecamsule	TEREPHTHALYLIDENE DICAMPHOR SULFONIC ACID	92761-26-7 / 90457-82-2	410-960-6 / -		10%(as acid)			26/10/2010
8	1-(4-tert-Butylphenyl)-3-(4-methoxyphenyl) propane-1,3-dione / Avobenzone	BUTYL METHOXYDIBENZOYLMETHANE	70356-09-1	274-581-6		5%			15/10/2010
9	alpha-(2-Oxoborn-3-ylidene)toluene-4-sulphonic acid and its salts	BENZYLIDENE CAMPHOR SULFONIC ACID	56039-58-8	-		6%(as acid)			26/10/2010
10	2-Cyano-3,3-diphenyl acrylic acid 2-ethylhexyl ester / Octocrilene	OCTOCRYLENE	6197-30-4	228-250-8	a) Propellant spray products b) Other products	a) 0,9% b) 10% Footnote (*3): Benzophenone as an impurity and/or degradation product of Octocrylene shall be kept at trace level.			29/08/2022
11	Polymer of N-((2 and 4)-[(2-oxoborn-3-ylidene)methyl]benzyl)acrylamide	POLYACRYLAMIDOMETHYL BENZYLIDENE CAMPHOR	113783-61-2	-		6%			26/10/2010
12	2-Ethylhexyl 4-methoxycinnamate / Octinoxate	ETHYLHEXYL METHOXYCINNAMATE	5466-77-3	226-775-7		10%			18/07/2019
13	Ethoxylated Ethyl-4-Aminobenzoate	PEG-25 PABA	116242-27-4	-		10%			15/10/2010
14	Isopentyl-4-methoxycinnamate / Amiloxate	ISOAMYL P-METHOXYCINNAMATE	71617-10-2	275-702-5		10%			15/10/2010

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15	2,4,6-Trianylino-(p-carbo-2'-ethylhexyl-1'-oxy)-1,3,5-triazine	ETHYLHEXYL TRIAZONE	88122-99-0	402-070-1		5%			15/10/2010
16	Phenol, 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%			08/03/2011
17	Benzoic acid, 4,4-{[6-[[[(1,1-dimethylethyl)amino]carbonyl]phenyl]amino]-1,3,5-triazine-2,4-diyldiimino}bis-, bis(2-ethylhexyl)ester / Iscotrizinol	DIETHYLHEXYL BUTAMIDO TRIAZONE	154702-15-5	-		10%			26/10/2010
18	3-(4'-Methylbenzylidene)-dl-camphor / Enzacamene	4-METHYLBENZYLIDENE CAMPHOR	36861-47-9 / 38102-62-4	253-242-6 /		4%			08/03/2011
20	2-Ethylhexyl salicylate / Octisalate)	ETHYLHEXYL SALICYLATE	118-60-5	204-263-4		5%			08/03/2011
21	2-Ethylhexyl 4-(dimethylamino)benzoate / Padimate O (USAN: BAN)	ETHYLHEXYL DIMETHYL PABA	21245-02-3	244-289-3		8%			26/10/2010
22	2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid (Benzophenone-5) and its sodium salt / Sulisobenzone	BENZOPHENONE-4; BENZOPHENONE-5	4065-45-6 / 6628-37-1	223-772-2 / -		5% (as acid)			15/10/2010
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%			27/07/2020
23a	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano)	METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL (NANO)	103597-45-1	403-800-1		10 % (*) (* 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.').	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 # 98,5 %, with 2,2#-methylene-bis-(6(2H-benzotriazol-2-yl)-4-(isocetyl)phenol) isomer fraction not exceeding 1,5 %; — Solubility < 5		06/08/2020

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	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		
							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): # 120 nm of mass distribution and/or # 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)			26/10/2010
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%			08/03/2011
26	Dimethicodiethylbenzalmalonate	POLYSILICONE-15	207574-74-1	426-000-4		10%			15/10/2010
27	Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7[1]/ 1317-70-0[2]/ 1317-80-2[3]	236-675-5[1] /215-280-1[2]/ 15-282-2 [3]		25%* *: In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g (Maximum concentration in ready for use preparation)	Titanium dioxide in powder form containing 1 % or more of particles with aerodynamic diameter # 10 µm, to be used in compliance with Annex III, No 321. For the product types under letter (c) of column (f) in Annex III, No 321, the maximum concentration in ready for use preparation provided in		21/06/2021

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							column (g) of this entry applies. (For use as a colourant, see Annex IV, No 143)		
27a	Titanium dioxide (nano)	TITANIUM DIOXIDE (NANO)	13463-67-7[1]/ 1317-70-0[2]/ 1317-80-2[3]	236-675-5[1]/ 215-280-1[2]/ 215-282-2[3]		25% - In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit of 25%.		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 # 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 # 30 nm, — aspect ratio from 1 to 4,5, and volume specific surface area # 460 m ² /cm ³ , — coated with	28/07/2020

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								<p>Silica, Hydrated Silica, Alumina, Aluminium Hydroxide, Aluminium Stearate, Stearic Acid, Trimethoxycaprylylsilane, Glycerin, Dimethicone, Hydrogen Dimethicone, Simethicone;</p> <p>or coated with one of the following combinations: —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 %,</p>	

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								<p>— photocatalytic activity # 10 % compared to corresponding non-coated or non-doped reference, — nanoparticles are photostable in the final formulation.</p> <p>Wording of conditions of use and warnings: For face products containing Titanium Dioxide (nano) coated with the combination Alumina and Manganese Dioxide: Not to be used on the lips.</p>	
28	Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, hexylester	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	302776-68-7	443-860-6		10%			29/07/2013
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%	Not to be used in sprays. Only nanomaterials having the following characteristics are allowed: - Median primary particle size >80 nm; - Purity # 98%; - Uncoated		10/10/2016
30	Zinc oxide	ZINC OXIDE	1314-13-2	215-222-5		- 25%		Not to be used	13/09/2016

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						- In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit of 25%		in applications that may lead to exposure of the end-user's lungs by inhalation.	
30a	Zinc oxide (nano)	ZINC OXIDE (NANO)	1314-13-2	215-222-5		25% - In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit of 25%		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 # 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	01/03/2019

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								nm and D1 (1 % below this size) > 20 nm, — water solubility < 50 mg/L —uncoated, or coated with triethoxycaprylylsilane, dimethicone, dimethoxydiphenylsilanetriethoxycaprylylsilane 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.		22/09/2021
32	2-ethoxyethyl (2Z)-2-cyano-2-[3-(3-methoxypropylamino) cyclohex-2-en-1-ylidene]acetate	METHOXYPROPYLAMINO CYCLOHEXENYLIDENE ETHOXYETHYLCYANOACETATE	1419401-88-9	700-860-3		3%	- Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation - Do not use with nitrosating agents - Maximum nitrosamine content: 50 µg/kg - Keep in nitrite-free containers		24/11/2020
33	1,1'-(1,4-piperazinediyl)bis[1-[2-[4-(diethylamino)-2-hydroxybenzoyl]phenyl]-methanone	BIS-(DIETHYLAMINOHYDROXYBENZOYL BENZOYL) PIPERAZINE	919803-06-8	485-100-6		10 % (In case of combined use of			27/11/2022

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						Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine and Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine (nano), the sum shall not exceed 10 %).			
34	1,1'-(1,4-piperazinediyl)bis[1-[2-[4-(diethylamino)-2-hydroxybenzoyl]phenyl]-methanone	BIS-(DIETHYLAMINOHYDROXYBENZOYL BENZOYL) PIPERAZINE (NANO)	919803-06-8	485-100-6		10 % (In case of combined use of Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine and Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine (nano), the sum shall not exceed 10 %).	Only nanomaterials having the following characteristics are allowed: — Purity # 97 % —Median particle size D50 (50 % of the number below this diameter): # 50 nm of number size distribution. Not to be used in applications that may lead to exposure of the end user's lungs by inhalation.		27/11/2022