

▼ B

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-ylidenemethyl) anilinium methyl sulfate	Camphor Benzalkonium Methosulfate	52793-97-2	258-190-8		6 %		
▼ <u>M47</u>								
3	Benzoic acid, 2-hydroxy-, 3,3,5-trimethylcyclohexyl ester/Homosalate ⁽⁸⁾	Homosalate	118-56-9	204-260-8	Face products with the exception of propellant spray products	7,34 %		
▼ <u>M44</u>								
4	2-Hydroxy-4-methoxy-benzophenone/Oxybenzone ⁽⁶⁾	Benzophenone-3	131-57-7	205-031-5	a) Face products, hand products, and lip products, excluding propellant and pump spray products	a) 6 % b) 2,2 % c) 0,5 %	For a) and b) Not more than 0,5 % to protect product formulation 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 ⁽¹⁾

▼ **M44**

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					b) Body products, including propellant and pump spray products c) Other products			

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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 Dicumphor Sulfonic Acid	92761-26-7, 90457-82-2	410-960-6		10 %(as acid)		

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a	b	c	d	e	f	g	h	i
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)		
▼ <u>M44</u>								
10	2-Cyano-3,3-diphenyl acrylic acid, 2-ethylhexyl ester/Octocrylene ⁽⁶⁾ ⁽⁷⁾	Octocrylene	6197-30-4	228-250-8	a) Propellant spray products b) Other products	a) 9 % b) 10 %		
▼ <u>B</u>								
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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a	b	c	d	e	f	g	h	i
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 %		
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/Isco-trizinol (USAN)	Diethylhexyl Butamido Triazone	154702-15-5			10 %		
▼ M51 —								
▼ M10 —								
▼ 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 %		

▼ **B**

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22	2-Hydroxy-4-methoxy-benzophenone-5-sulfonic acid and its sodium salt/Suliso-benzone	Benzophenone-4, Benzophenone-5	4065-45-6/ 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)/Bisoc-trizole	Methylene Bis-Benzo-triazolyl Tetramethyl-butylphenol	103597-45-1	403-800-1		10 % ⁽⁵⁾		
23a	2,2'-Methylene- bis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethyl-butyl)phenol)/Bisoc-trizole	Methylene Bis-Benzo-triazolyl Tetramethyl-butylphenol (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 ≥ 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;	

▼ **M26**

▼ **M26**

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
							— 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)		
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 ⁽²⁾	Titanium Dioxide	13463-67-7/ 1317-70-0/ 1317-80-2	236-675-5/ 215-280-1/ 215-282-2		25 % ⁽⁴⁾	Titanium dioxide in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μ m, 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 column (g) of this entry applies.	

▼ **M40**▼ **C9**

▼B

▼M34

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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	
a	b	c	d	e	f	g	h	i
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⁾	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 $\geq$ 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, Trimethoxycaprylsilane, Glycerin, Dimethicone, Hydrogen Dimethicone, Simethicone, or coated with one of the following combinations: — Silica at a maximum concentration of 16 % and Cetyl Phosphate at a maximum concentration of 6 %,	For face products containing Titanium Dioxide (nano) coated with the combination Alumina and Manganese Dioxide: Not to be used on the lips.

▼ **M34**

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a	b	c	d	e	f	g	h	i
							— 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 Triethoxycaprylsilane at a maximum concentration of 9 %, — photocatalytic activity ≤ 10 % compared to corresponding non-coated or non-doped reference, — nanoparticles are photostable in the final formulation.	
▼ M1 28	Benzoic acid, 2-[-4-(diethylamino)-2-hydroxybenzoyl]-Hexylester	Diethylamino Hydroxy benzoyl Hexyl Benzoate	302776-68-7	443-860-6		10 %		
▼ M6 ▼ C2 29	1,3,5-Triazine, 2,4,6-tris [1,1'-biphenyl]-4-yl-, including as nano-material	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	
▼ M12 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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a	b	c	d	e	f	g	h	i
30a	Zinc oxide	Zinc Oxide (nano)	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. 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 triethoxycaprylylsilane, dimethicone, dimethoxydiphenylsilanetriethoxycaprylylsilane cross-polymer, or octyl triethoxy silane.	

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▼ M29								
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.	
▼ M39								
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	
▼ M47								
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 % ⁽⁹⁾		

▼ **M47**

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a	b	c	d	e	f	g	h	i
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 % ⁽⁹⁾	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.	

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

⁽²⁾ For use as a colorant, see Annex IV, No 143.

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

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

► **M26** ⁽⁵⁾ 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. ◀

⁽⁶⁾ However, cosmetic products containing that substance and complying with the restrictions set out in 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.

⁽⁷⁾ Benzophenone as an impurity and/or degradation product of Octocrylene shall be kept at trace level.

⁽⁸⁾ 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.

⁽⁹⁾ In case of combined use of Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine and Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine (nano), the sum shall not exceed 10 %.