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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
[^{F5} 1]								
2	<i>N,N,N</i> -Trimethyl-(2-oxoborn-3-ylidenemethyl)anilinium methyl sulfate	Camphor Benzalkonium Methosulfate	52793-97	258-190-8		6 %		
3	Benzoic acid, 2-hydroxy-, 3,3,5-trimethylcyclohexyl ester/ Homosalate	Homosalate	18-56-9	204-260-8		10 %		
[^{F6} 4]	2-Hydroxy-4-methoxybenzophenone/ Oxybenzone	Benzophenone-4-benzophenone/ Benzophenone-3	131-57-7	205-031-5		6 %	Not more than 0,5 % to protect product formulation	Contains Benzophenone-3] ^a
5	Moved or deleted							
6	2-Phenylbenzenesulfonic acid and its	Phenylbenzenesulfonic Acid	27508-81-2	248-502-0		8 % (as acid)		
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.							
b	[^{F1} For use as a colorant, see Annex IV, No 143.]							
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]							
d	[^{F3} In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g.]							
e	[^{F4} 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.]							

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	potassium, sodium and triethanolamine salts/ Ensulizole						
7	3,3'- (1,4- Phenylene- bis(7,7- dimethyl-2- oxobicyclo- [2.2.1]hept-1- yl- methanesulfonic acid) and its salts/ Ecamsule	Terephthalic Dicamphoric Sulfonic Acid	92761-26-4 00457-82-2	410-960-6		10 %(as acid)	
8	1-(4- tert- Butylphenyl)-3- (4- methoxyphenyl)propane-1,3- dione/ Avobenzone	Butyl Methoxydibenzoylmethane	70356-09-2	274-581-6		5 %	
9	alpha- (2- Oxobornylidene)- 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	197-30-4	228-250-8		10 % (as acid)	

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

b [^{F1}For use as a colorant, see Annex IV, No 143.]

c [^{F2}In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]

d [^{F3}In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g.]

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11	Polymer of N- {(2 and 4)-[(2-oxoborn-3-ylidene)methyl]benzyl} acrylamide	Polyacrylamide Benzylidene Camphor	113783-01-2		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 methoxycinnamate/ Amiloxate	Isoamyl Methoxycinnamate	71617-10-2	275-702-5	10 %		
15	2,4,6-Triamino-1,3,5-triazine (p-carbo-2'-ethylhexyl-1'-oxy)-1,3,5-triazine	Ethylhexyl-Triazine	88122-99-4	402-070-1	5 %		
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-	Diethylhexyl Butamido Triazone	14702-15-5		10 %		

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

b ^[F1]For use as a colorant, see Annex IV, No 143.]

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	dimethyl(ethylamino)carbonyl)phenylamino)-1,3,5-triazine-2,4-diyl)diimino)bis-, bis (2-ethylhexyl) ester/ Iscotrizinol (USAN)						
18	3-(4-Methylbenzylidene)camphor/ Enzacamene	4-Methylbenzylidene Camphor	38102-62-4	36861-47-9	253-242-6	4 %	

F7

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 (dimethylamino)benzoate/ Padimate O (USAN: BAN)	1245-02-2	344-289-3		8 %	
22	2-Hydroxy-4-methoxybenzoic sulfonic acid and its sodium salt/ Sulisobenzone	Benzophenone-5-benzophenone-5-sulfonic acid and its sodium salt/ Sulisobenzone	1065-45-6	2628-72-1	-	5 % (as acid)	
[^{F8} 23	2,2'-Methylenebis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	103597-4	5403-800-1		10 %] ^e	

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

b [^{F1}For use as a colorant, see Annex IV, No 143.]

c [^{F2}In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]

d [^{F3}In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g.]

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	tetramethylbutylphenol)/ Bisoctrizole						
[^{F4} 23a	2,2'- Methylene- bis(6- (2H- benzotriazol- yl)-4- (1,1,3,3- tetramethylbutylphenol)/ Bisoctrizole	Methylene- Bis- Benzotriazolyl Tetramethylbutylphenol (nano)	103597-45403-800-1		10 % ^e	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	
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.						
b	[^{F1} For use as a colorant, see Annex IV, No 143.]						
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]						
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							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 Phenyl Dibenzimidazole Tetrasulfonate	180898-37429-750-0			10 % (as acid)	
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.						
b	[^{F1} For use as a colorant, see Annex IV, No 143.]						
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]						
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	disodium (USAN)						
25	2,2'-(6-(4-Methoxyphenyl)triazine-2,4-diyl)bis((2-ethylhexyl)oxy)phenol) / Bemotrizinol	Bis-Ethylhexyloxyphenol Methylenebis(phenyl)triazine	187393-00-6			10 %	
26	Dimethicone	Polydimethylsiloxane	207574-74-2	26-000-4		10 %	
[^{F1} 27	Titanium dioxide ^b	Titanium Dioxide	13463-67-2	236-675-5/ 1317-70-0215-280-1/ 1317-80-2215-282-2		25 %] ^d	
[^{F9} 27a	Titanium dioxide ^b	Titanium Dioxide (nano)	13463-67-2	236-675-5/ 1317-70-0215-280-1/ 1317-80-2215-282-2		25 %	Not to be used in application 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

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

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c [^{F2}In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]

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							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 m ² / cm
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.						
b	[^{F1} For use as a colorant, see Annex IV, No 143.]						
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]						
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							—	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:	
							—	Silica at a maximum concentration of 16 % and Cetyl Phosphate at a maximum concentration of 6 %, Alumina at

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- b** ^[F1]For use as a colorant, see Annex IV, No 143.]
- c** ^[F2]In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]
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								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 \leq 10 % compared to corresponding non-	
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.								
b	[^{F1} For use as a colorant, see Annex IV, No 143.]								
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]								
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							coated or non-doped reference, nanoparticles are photostable in the final formulation.
[^{F5} 28	Benzoic acid, 2-[4-(diethylamino)hydroxybenzoyloxy]hexylester	Diethylamino Hydroxybenzoyloxy 2-Benzoyloxy Hexylester	302776-68473-860-6			10 %]	
[^{F10} [^{X1} 29	1,3,5-Triazine, 2,4,6-tris[1,1'-biphenyl]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]]
[^{F2} 30	Zinc oxide	Zinc Oxide	1314-13-2215-222-5			25 % ^c	Not to be used in

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

b [^{F1}For use as a colorant, see Annex IV, No 143.]

c [^{F2}In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]

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						applications that may lead to exposure of the end-user's lungs by inhalation.
30a	Zinc oxide	Zinc Oxide (nano)	1314-13-2215-222-5		25 % ^c	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-
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.					
b	[^{F1} For use as a colorant, see Annex IV, No 143.]					
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]					
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								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
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.							
b	[^{F1} For use as a colorant, see Annex IV, No 143.]							
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]							
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							and D1 (1 % below this size) > 20 nm, water solubility < 50 mg/ L — uncoated, or coated with triethoxycaprylylsilane, dimethicone, dimethoxydiphenylsilanetriethoxysilane, cross- polymer, or octyl triethoxy silane.]
[^{F11} 31	3,3'- (1,4- Phenylene- diphenyl- triazine)	Bis- Diphenyl- 1,2,4- triazine	55514-22-7	200-823-1	5 %	Not to be used in applications that may lead to exposure of the end user's lungs by inhalation.]	
[^{F12} 32	2- ethoxyethyl (2Z)-2- cyano-2-	Methoxypropyl Cyclohexenylidene Ethoxyethylcyanoacetate	1419401-8	890-860-3	3 %	—	Not to be used

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

b [^{F1}For use as a colorant, see Annex IV, No 143.]

c [^{F2}In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]

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	[3-(3-methoxypropylamino)cyclohex-2-en-1-ylidene]acetate						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]
[^{F13} 33]	1,1'-(1,4-piperazine-2,2'-diyl)bis[2-[4-(diethylamino)-2-hydroxybenzoyl]phenyl]-methanone	Bis-(Diethylaminohydroxybenzoyl) Piperazine	919803-06485-100-6		10%	In case of combined use of Bis-(Diethylaminohydroxybenzoyl) Piperazine and Bis-(Diethylaminohydroxybenzoyl) Piperazine	
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.						
b	[^{F1} For use as a colorant, see Annex IV, No 143.]						
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]						
d	[^{F3} In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g.]						
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						(nano), the sum shall not exceed 10 %. Not to be used in applications that may lead to exposure of the end user's lungs by inhalation.]
[^{F13} 34	11,1'- (1,4- piperazine- [2-[4- (diethylamino)- hydroxybenzoyl]- methanone	Bis- (Diethylamino- hydroxybenzoyl)- Piperazine (nano)- hydroxybenzoyl]- phenyl]- methanone	919803-06	485-100-6	10%	Only nanomaterials having the following characteristics are allowed: — Purity \geq 97 %, — Median particle size D50 (50 % of the number below this diameter): \geq 50 nm
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.					
b	[^{F1} For use as a colorant, see Annex IV, No 143.]					
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]					
d	[^{F3} In case of combined use of Titanium Dioxide and Titanium Dioxide (nano), the sum shall not exceed the limit given in column g.]					
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								of number size distribution.
								Not to be used in applications that may lead to exposure of the end user's lungs by inhalation. In case of combined use of Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine and Bis-(Diethylaminohydroxybenzoyl Benzoyl) Piperazine (nano), the sum shall not exceed 10 %.]
a	Not required if concentration is 0,5 % or less and when it is used only for product protection purposes.							
b	[^{F1} For use as a colorant, see Annex IV, No 143.]							
c	[^{F2} In case of combined use of zinc oxide and zinc oxide (nano), the sum shall not exceed the limit given in column g.]							
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Editorial Information

- X1** Substituted by [Corrigendum to Commission Regulation \(EU\) No 866/2014 of 8 August 2014 amending Annexes III, V and VI to Regulation \(EC\) No 1223/2009 of the European Parliament and the Council on cosmetic products \(Official Journal of the European Union L 238 of 9 August 2014\)](#).

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Textual Amendments

- F1** Substituted by Commission Regulation (EU) 2016/1143 of 13 July 2016 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F2** Inserted by Commission Regulation (EU) 2016/621 of 21 April 2016 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F3** Inserted by Commission Regulation (EU) 2016/1143 of 13 July 2016 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F4** Inserted by Commission Regulation (EU) 2018/885 of 20 June 2018 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F5** Substituted by Commission Regulation (EU) No 344/2013 of 4 April 2013 amending Annexes II, III, V and VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F6** Substituted by Commission Regulation (EU) 2017/238 of 10 February 2017 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products.
- F7** Deleted by Commission Regulation (EU) 2015/1298 of 28 July 2015 amending Annexes II and VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F8** Substituted by Commission Regulation (EU) 2018/885 of 20 June 2018 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F9** Substituted by Commission Regulation (EU) 2019/1857 of 6 November 2019 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F10** Inserted by Commission Regulation (EU) No 866/2014 of 8 August 2014 amending Annexes III, V and VI to Regulation (EC) No 1223/2009 of the European Parliament and the Council on cosmetic products (Text with EEA relevance).
- F11** Inserted by Commission Regulation (EU) 2019/680 of 30 April 2019 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F12** Inserted by Commission Regulation (EU) 2020/1684 of 12 November 2020 amending Annex VI to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products (Text with EEA relevance).
- F13** Words in Annex 6 inserted (9.8.2023) by The Cosmetic Products (Restriction of Chemical Substances) (No. 2) Regulations 2023 (S.I. 2023/836), regs. 1(2), 3(3), **Sch. 2**

Changes to legislation:

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