

Status: Point in time view as at 16/04/2015.

Changes to legislation: There are currently no known outstanding effects for the Regulation (EC) No 1223/2009 of the European Parliament and of the Council, ANNEX V. (See end of Document for details)

ANNEX V

LIST OF PRESERVATIVES ALLOWED IN COSMETIC PRODUCTS

Preamble

1. For the purposes of this list:
 - ‘Salts’ is taken to mean: salts of the cations sodium, potassium, calcium, magnesium, ammonium and ethanolamines; salts of the anions chloride, bromide, sulphate, acetate.
 - ‘Esters’ is taken to mean: esters of methyl, ethyl, propyl, isopropyl, butyl, isobutyl, phenyl.
2. All finished products containing formaldehyde or substances in this Annex and which release formaldehyde must be labelled with the warning ‘contains formaldehyde’ where the concentration of formaldehyde in the finished product exceeds 0,05 %.

Reference number	Substance identification				Conditions			Wording of conditions of use and warnings
	Chemical name/INN	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
1	Benzoic acid and its sodium salt	Benzoic acid Sodium Benzoate	65-85-0 532-32-1	200-618-2 208-534-8	Rinse-off products, except oral products	2,5 % (acid)		
					Oral products	1,7 % (acid)		
					Leave-on products	0,5 % (acid)		
1a	Salts of benzoic acid other than that listed under reference number 1 and esters of benzoic acid	Ammonium benzoate, calcium benzoate, potassium benzoate, magnesium benzoate, MEA-benzoate, methyl benzoate, ethyl benzoate, propyl benzoate, butyl	1863-63-4 2090-05-3 582-25-2 553-70-8 4337-66-0 93-58-3 93-89-0 2315-68-6 136-60-7 120-50-3 939-48-0 93-99-2	4217-468-9 218-235-4 209-481-3 209-045-2 224-387-2 202-259-7 202-284-3 219-020-8 205-252-7 204-401-3 213-361-6 202-293-2		0,5 % (acid)		

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		benzoate, isobutyl benzoate, isopropyl benzoate, phenyl benzoate					
2	Propionic acid and its salts	Propionic acid, ammonium propionate, calcium propionate, magnesium propionate, potassium propionate, sodium propionate	79-09-4, 17496-08-1, 4075-81-4, 557-27-7, 327-62-8, 137-40-6	201-176-3, 241-503-7, 4223-795-8, 209-166-0, 206-323-5, 205-290-4		2 % (acid)	
3	Salicylic acid ^a and its salts	Salicylic acid, calcium salicylate, magnesium salicylate, MEA-salicylate, sodium salicylate, potassium salicylate, TEA-salicylate	69-72-7, 824-35-1, 18917-89-0, 59866-70-2, 54-21-7, 578-36-9, 2174-16-5	200-712-3, 212-525-4, 042-669-3, 261-963-2, 200-198-0, 209-421-6, 218-531-3		0,5 % (acid)	Not to be used in products for children under 3 years of age, except for shampoos
4	Hexa-2,4-dienoic acid and its salts	Sorbic acid, calcium sorbate, sodium sorbate, potassium sorbate	110-44-1, 7492-55-9, 7757-81-5, 24634-61-2	203-768-7, 9231-321-6, 231-819-3, 246-376-1		0,6 % (acid)	
5	Formaldehyde, paraformaldehyde ^c	Formaldehyde, Paraformaldehyde ^c	50-00-0, 11531-89-4	200-001-8	Oral products	0,1 % (free formaldehyde)	Not to be used in aerosol dispensers (sprays)
					Other products	0,2 % (free formaldehyde)	
6	Moved or deleted						

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7	Biphenylol, and its salts	2-Phenylphenol, sodium o-phenylphenate, potassium o-phenylphenate, MEA o-phenylphenate	90-43-7, 132-27-4, 13707-65-8, 84145-04-0	201-993-5, 205-055-6, 837-243-9, 082-227-7		0,2 % (as phenol)		
8	Pyrithione zinc ^d	Zinc pyrithione	13463-41-2	236-671-3	Hair products	1,0 %	Only in rinse-off products Not to be used in oral products	
					Other products	0,5 %		
9	Inorganic sulphites and hydrogen sulphites ^e	Sodium sulfite, ammonium bisulfite, ammonium sulfite, potassium sulfite, potassium hydrogen sulfite, sodium bisulfite, sodium metabisulfite, potassium metabisulfite	7757-83-7, 10192-30-0, 10196-04-0, 10117-38-2, 7773-03-7, 7631-90-5, 7681-57-4, 16731-55-8	7231-821-4, 033-469-7, 033-484-9, 233-321-1, 7231-870-1, 5231-548-0, 4231-673-0, 840-795-3		0,2 % (as free SO ₂)		
10	Moved or deleted							
11	Chlorobutanol	Chlorobutanol	57115-8	200-317-6		0,5 %	Not to be used in aerosol dispensers (sprays)	Contains Chlorobutanol
1 ^{F4} 12	4-Hydroxybenzoic acid and its Methyl- and Ethyl-esters,	4-Hydroxybenzoic acid methylparaben potassium ethylparaben potassium paraben	99-96-7, 99-76-3, 36457-19-6, 16782-08-2, 5026-62-0, 36285-68-8, 120-47-8, 114-63-6, 26112-07-2	202-804-9, 202-785-7, 253-048-1, 240-830-2, 225-714-1, 852-487-6, 204-399-4, 204-051-1, 247-464-2		0,4 % (as acid) for single ester 0,8 % (as acid) for		l

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	and their salts	sodium methylparaben sodium ethylparaben ethylparaben sodium paraben potassium methylparaben calcium paraben	69959-44-0 074-235-4			mixtures of esters		
[^{F5} 12a	Butyl 4-hydroxybenzoate and its salts Propyl 4-hydroxybenzoate and its salts	Butylparaben propylparaben sodium propylparaben sodium butylparaben potassium butylparaben potassium propylparaben	04-26-8 04-13-3 35285-69-2 16457-20-2 38566-94-8 84930-16-3	202-318-7 202-307-7 252-488-1 253-049-7 854-009-1 384-597-5		0,14 % (as acid) for the sum of the individual concentrations of 0,8 % (as acid) for mixtures of substances mentioned in entry 12 and 12a, where the sum of the individual concentrations of butyl- and propylparaben and their salts does not exceed 0,14 %	Not to be used in leave-on products designed for children under three years of age: 'Do not use on the nappy area']	For leave-on products designed for children under three years of age: 'Do not use on the nappy area']
13	3-Acetyl-6-methylpyridin-3(1H)-dione and its salts	Dehydroaceton acid, sodium dehydroacetate	520-45-6 4418-26-2 16807-48-0	208-293-9, 224-580-1		0,6 % (as acid)	Not to be used in aerosol dispensers (sprays)	
14	Formic acid and its	Formic acid,	64-18-6, 141-53-7	200-579-1, 205-488-0		0,5 % (as acid)		

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	sodium salt	sodium formate					
15	3,3'-Dibromo-4,4'-hexamethylenedioxydibenzamidine and its salts (including isethionate)	Dibromohydroxyisethionate	038-56-183-8	299-116-4		0,1 %	
16	Thiomersal	Thimerosal	54-64-8	200-210-4	Eye products	0,007 % (of Hg) If mixed with other mercurial compounds authorised by this Regulation, the maximum concentration of Hg remains fixed at 0,007 %	Contains Thiomersal
17	Phenylmercuric salts (including borate)	Phenyl Mercuric Acetate, Phenyl Mercuric Benzoate	62-38-4, 94-43-9	200-532-5, 202-331-8	Eye products	0,007 % (of Hg) If mixed with other mercurial compounds authorised by this Regulation, the maximum concentration of Hg remains fixed at 0,007 %	Contains Phenylmercuric compounds
18	Undecylenoic acid and its salts	Undecylenoic acid, potassium undecylenate, sodium undecylenate, calcium	12-38-9, 6159-41-7, 3398-33-2, 22-14-1, 84471-25-0, 56532-40-2	203-965-8, 222-264-8, 215-331-8, 282-908-9, 060-247-7		0,2 % (as acid)	

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		undecylenate, TEA- undecylenate, MEA- undecylenate					
19	5- Pyrimidinamine, 1,3- bis (2- ethylhexyl) hexahydro-5- methyl-	Hexetidine	41-94-6	205-513-5		0,1 %	
20	5- Bromo-5- nitro-1,3- dioxane	5- Bromo-5- nitro-1,3- dioxane	30007-47-7	250-001-7	Rinse- off products	0,1 %	Avoid formation of nitrosamines
21	Bronopol	2- Bromo-2- nitropropane-1,3- diol	52-51-7	200-143-0		0,1 %	Avoid formation of nitrosamines
22	2,4- Dichlorobenzyl alcohol	Dichlorobenzyl alcohol	4771-82-8	217-210-5		0,15 %	
23	1-(4- Chlorophenyl)-3- (3,4- dichlorophenyl) urea ^f	Triclocarban	101-20-2	202-924-1		0,2 %	Purity criteria: 3,3',4,4'- Tetrachloroazobenzene <1 ppm 3,3',4,4'- Tetrachloroazoxybenzene <1 ppm
24	Chlorocresol	Chloro- m- Cresol	59-50-7	200-431-6	Not to be used in products applied on mucuous membranes	0,2 %	
1 ^{F6} 25	5- Chloro-2- (2,4- dichlorophenoxy) phenol	Triclosan	3380-34-5	222-182-2	(a) Hand soaps Body soaps/ Shower gels	Toothpaste 3,3 %	

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					Deodorants (non-spray) Face powders and blemish concealers Nail products for cleaning the fingernails and toenails before the application of artificial nail systems		
					(b)	Mouthwashes %	l
26	Chloroxylenol	Chloroxylenol	8804-0	201-793-8	0,5 %		
27	N,N'-methylenebis[3-(hydroxymethyl)-2,5-dioximidazolidin-4-yl]urea]	Imidazolidinone	3926-46	254-372-6	0,6 %		
28	Poly(methyleneimine) bis[[[aminoimino]iminomethyl]amino]-, dihydrochloride	Poly(methyleneimine)	5017065	28757413	0,3 %		
29	2-Phenoxyethanol	Phenoxyethanol	1229-6	204-589-7	1,0 %		
30	Methenamine	Methenamine	100-97-0	202-905-8	0,15 %		
31	Methenamine 3-chloroallylochloride	Quaternium	4080-31-3	223-805-0	0,2 %		
32	1-(4-Chlorophenoxy)-1-(imidazol-1-yl)-3,3-	Climbazol	138083-17	253-775-4	0,5 %		

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	dimethylbutan-2-one						
33	1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	DMDM Hydantoin	6440-58-0	229-222-8		0,6 %	
[^{F1} 34	Benzyl alcohol [#]	Benzyl Alcohol	100-51-6	202-859-9		1,0 %]
35	1-Hydroxy-4-methyl-6-(2,4,4-trimethylpentyl)-2-pyridon and its monoethanolamine salt	1-Hydroxy-4-methyl-6-(2,4,4-trimethylpentyl)-2-pyridon, Piroctone Olamine	50650-76-2	272-574-2	Rinse-off products	1,0 %	
			468890-66-4		Other products	0,5 %	
36	Moved or deleted						
37	2,2'-methylenebis(6-bromo-4-chlorophenol)	Bromochlorophenol	5415-29-2	239-446-8		0,1 %	
38	4-Isopropylm-cresol	o-Cymenol	3228-02-2	221-761-7		0,1 %	
39	Mixture of 5-Chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate	Methylchlorisothiazolone and Methylisothiazolone	26170-15-2	247-500-7		0,0015 % (of a mixture in the ratio 3:1 of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one)	
			2682-20-4	220-239-6			
			55965-184-0				
40	2-Benzyl-4-chlorophenol	Chlorophenol	120-32-1	204-385-8		0,2 %	
41	2-Chloroacetamide	Chloroacetamide	79-07-2	201-174-2		0,3 %	Contains chloroacetamide

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42	N,N''-bis(4-chlorophenyl)diimino-2,2-tetraazatetrahydroimidine and its digluconate diacetate and dihydrochloride	Chlorhexidine Chlorhexidine Diacetate Chlorhexidine Digluconate Chlorhexidine Dihydrochloride	5556-1, 200-238-7, 5695-1, 200-302-4, 18472-51-0, 42-354-0, 5697-42-5, 223-026-6		0,3 % (as chlorhexidine)		
43	1-Phenoxypropan-2-ol ^h	Phenoxyisopropanol	7703-35-4	212-222-7	Only for rinse-off products	1,0 %	
[^{F7}][^{X1} 44]	Alkyl (C ₁₂₋₂₂) trimethyl ammonium bromide and chloride	Behentrimonium chloride ^o , cetrimonium bromide, cetrimonium chloride ^p , laurtrimonium bromide, laurtrimonium chloride, steartrimonium bromide, steartrimonium chloride ^p	17201-53-0, 57-09-0, 12-02-7, 1119-94-4, 112-00-5, 1120-02-1, 112-03-8	041-327-0, 200-311-3, 203-928-6, 214-290-3, 203-927-0, 214-294-5, 203-929-1]]		0,1 %	
45	4,4-Dimethyl-oxazolidine	Dimethyl-oxazolidine	51200-87-4	257-048-2		0,1 %	pH > 6
46	N-(Hydroxymethyl)-N-(dihydroxymethyl-1,3-dioxo-2,5-imidazolidinyl-4)-N'-(hydroxymethyl) urea	Diazolidinylurea	78491-02-8	878-928-2		0,5 %	
47	Benzenecarboxamide, 4,4'-(1,6-hexanediyloxy)bis- and its salts	Hexamidine Hexamidine diisethionate Hexamidine paraben	13811-75-4, 59-40-5, 98841-83-9	211-533-5, 299-055-3		0,1 %	

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	(including isethionate and p-hydroxybenzoate)						
48	Glutaraldehyde (Pentane-1,5-dial)	Glutaral	111-30-8	203-856-5	0,1 %	Not to be used in aerosols (sprays)	Contains glutaral ¹
49	5-Ethyl-3,7-dioxo-1-azabicyclo[3.3.0]octane	7-Ethylbicyclooxazolidine	7747-35-5	5231-810-4	0,3 %	Not to be used in oral products and in products applied on mucous membranes	
50	3-(p-Chlorophenoxy)propane-1,2-diol	Chlorphenol	64-29-0	203-192-6	0,3 %		
51	Sodium hydroxymethylacetate	Sodium Glycinate	70161-44-3	274-357-8	0,5 %		
52	Silver chloride deposited on titanium dioxide	Silver chloride	7783-90-6	232-033-3	0,004 % (as AgCl)	20 % AgCl (w/w) on TiO ₂ . Not to be used in products for children under 3 years of age, in oral products and in eye and lip products	
53	Benzenemethanamine, N,N-dimethyl-N-[2-	Etazolinium Chloride	111-54-0	204-479-9(a)	0,1 % off products		

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	[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]-, chloride				(b)	Leave-on products other than oral products		
54	Benzalkonium chloride, bromide and saccharinate	Benzalkonium chloride, benzalkonium bromide, benzalkonium saccharinate	8001-54-5, 63449-41-2, 91080-29-4, 68989-01-3, 68424-85-2, 68391-01-3, 61789-71-8, 85409-22-9	5264-151-6, 293-522-5, 273-545-7, 370-325-2, 269-919-4, 363-080-8, 287-089-1, 85409-22-9		0,1 % (as benzalkonium chloride)		Avoid contact with eyes
55	Methanol, (phenylmethoxy-)	Benzylhenylmethoxy-	4648-60-8	838-588-8		Rinse-off products	0,15 %	
56	3-Iodo-2-propynylbutylcarbamate	Iodopropylbutylcarbamate	55406-53-8	659-627-5	(a) (b) (c)	Rinse-off products (b) Leave-on products (c) Deodorants/anti-perspirants	0,02 % 0,0 % 0,006 % (a)	(a) Not to be used for children under 3 years of age ^k (b) Not to be used for children under 3 years of age, except in bath products/shower gels and shampoo (c) Not to be used in body lotion

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						(b) and (c)	and body cream ^m Not to be used in products for children under 3 years of age
57	2-Methyl-2H-isothiazol-3-one	Methylisothiazolinone ^a	2682-110-2	120-239-6	0,01 %		
[^{F2} 58	Ethyl-N-alpha-dodecanoyl-L-arginate hydrochloride ^a	Ethyl Lauroyl Arginate HCl	60372-77-2	234-630-6	0,4 %	Not to be used in lip products, oral products and spray products	I
[^{F3} [^{X1} 59	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, silver monohydrate and 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, silver(1+) salt, monohydrate	Citric acid (and) Silver citrate	—	460-890-5	0,2 %, corresponding to 0,0024 % of silver	Not to be used in oral products and eye products	II

a For use other than as a preservative, see Annex III, No. 98.

b Solely for products which might be used for children under 3 years of age and which remain in prolonged contact with the skin.

c For use other than as a preservative, see Annex III, No. 13.

d For use other than as a preservative, see Annex III, No. 101.

e For use other than as a preservative, see Annex III, No. 99.

f For use other than as a preservative, see Annex III, No. 100.

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g	[^{F1} For other uses than preservatives, see Annex III, entry No 45.]
h	For use other than as a preservative, see Annex III, No. 54.
i	Only if the concentration exceeds 0,05 %.
j	For use other than as a preservative, see Annex III, No. 65.
k	Solely for products, other than bath products/shower gels and shampoo, which might be used for children under 3 years of age.
l	Solely for products which might be used for children under 3 years of age.
m	Concerns any products aimed to be applied on a large part of the body.
n	[^{F2} For other uses than preservatives, see Annex III, entry No 197.]
o	[^{F3} ^{X1} For use other than as a preservative, see Annex III, No 287.
p	For use other than as a preservative, see Annex III, No 286.]]

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 \(Official Journal of the European Union L 238 of 9 August 2014\).](#)

Textual Amendments

- F1** 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 \(Text with EEA relevance\).](#)
- F2** Inserted 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 \(Text with EEA relevance\).](#)
- F3** 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 \(Text with EEA relevance\).](#)
- F4** Substituted by [Commission Regulation \(EU\) No 1004/2014 of 18 September 2014 amending Annex V to Regulation \(EC\) No 1223/2009 of the European Parliament and of the Council on cosmetic products \(Text with EEA relevance\).](#)
- F5** Inserted by [Commission Regulation \(EU\) No 1004/2014 of 18 September 2014 amending Annex V 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 \(EU\) No 358/2014 of 9 April 2014 amending Annexes II and V to Regulation \(EC\) No 1223/2009 of the European Parliament and of the Council on cosmetic products \(Text with EEA relevance\).](#)
- F7** Substituted 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 \(Text with EEA relevance\).](#)

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