

# Preservative regulations: a global overview



Detailed in the following pages are preservative regulations applying in Europe, China (including Hong Kong), the ASEAN countries, Taiwan, Japan, the United States and Australia.

The topic of preservatives is complex and, unlike other elements of the personal care sector, the area concerning preservatives seems subject to frequent change.

It was decided that as the European regulations feature a positive list that is fairly well accepted around the world, this would be the best anchor for the comparison and would also make it easier for the formulator seeking a “universal” preservative system. “Natural” preservatives are not legal as such unless they appear in Council Directive 76/768/EEC Annex VI (i.e. the approved preservative section of the law). The natural preservative can only be used legally if it is used as part of the perfume (i.e. parfum), for its marketing claim (e.g. honeysuckle) or as an effect (e.g. hinokitiol is listed as a hair conditioner). *Personal Care* published an update on natural preservatives in September 2005 and so these are not included in this section.

The following notes include elements taken from Council Directive 76/768/EEC, Annex VI, All Cosmetic Products (Safety) Regulations 2104 SI No 2152 Schedule 6.

## Substances

The substances marked with the symbol<sup>+</sup> may also be added to cosmetic products in concentrations other than those laid down in this Annex for other purposes apparent from the presentation of the products, e.g. as deodorants in soaps or as anti-dandruff agents in shampoos.

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.

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%.

- <sup>1</sup> For non-preservative use see Annex III, Part 1, entry 98.
- <sup>3</sup> For non-preservative use see Annex III, Part 1, entry 101.
- <sup>4</sup> For non-preservative use see Annex III, Part 1, entry 99.
- <sup>5</sup> For non-preservative use see Annex III, Part 1, entry 100.

Black type = main listed substances.  
Blue type = subsidiary substances.

## Europe, China (including Hong Kong)

- <sup>1</sup> Solely for products which might be used for children under three years of age and which remain in prolonged contact with the skin.
- <sup>2</sup> Concerns any products aimed to be applied on a large part of the body.



- <sup>3</sup> Solely for products, other than bath products/shower gels and shampoos, which might be used for children under three years of age.
- <sup>4</sup> Solely for products which might be used for children under three years of age.

## ASEAN countries

- \* Concerns any products designed to be applied on a large part of the body.
  - \*\* Solely for products, other than bath products/shower gels and shampoos, which might be used for children under three years of age.
  - \*\*\* Solely for products which might be used for children under three years of age.
- <sup>1</sup> For non-preservative use. See Annex III, Part 1, entry 98.
  - <sup>2</sup> Solely for products which might be used for children under three years of age and which remain in prolonged contact with the skin.
  - <sup>3</sup> For non-preservative use. See Annex III, Part 1, entry 101.
  - <sup>4</sup> For non-preservative use. See Annex III, Part 1, entry 99.
  - <sup>5</sup> For non-preservative use. See Annex III, Part 1, entry 100.

## Australia

There is no separate list of preservatives.

## Japan

Column 1: Not applied on mucous membrane and rinsed off.

Column 2: Not applied on mucous membrane and not rinsed off.

Column 3: Mucous membrane.

Note 1: Empty columns indicate no combinations allowed.

Note 2: Cosmetics which are used on mucous membranes and which can be combined are limited to use in mouth.

Note 3: Refers to aqueous solutions which include 1.0% to 1.3% 5-chloro-2-methyl-4-isothiazoline-3-one and 0.3% to 0.42% of 2-methyl-4-isothiazolinone-3-one.

- The second part of this overview will be published in the January 2009 issue of *Personal Care*.

							Europe, China (including Hong Hong)			
EC number	Colipa number	Substances	Other names	CAS number	EINECS number	Formaldehyde donor?	Maximum authorised concentration	Limitations and requirements	Conditions of use and warnings which must be printed on the label	
1	P2	Benzoic acid, its sodium salt	Benzoic acid, its sodium salt	65-85-0 532-32-1	200-618-2	No	Rinse-off products, except oral care products: 2.5% (acid) Oral care products: 1.7% (acid) Leave-on products: 0.5% (acid)			
1a		Salts of benzoic acid other than those listed under reference number 1 and esters of benzoic acid				No	0.5% (acid)			
		Aluminium benzoate	Aluminium benzoate	555-32-8	209-091-3	No	0.5% (acid)			
		Ammonium benzoate	Ammonium benzoate	1863-63-4	217-468-9	No	0.5% (acid)			
		Butyl benzoate	Butyl benzoate	136-60-7	205-252-7	No	0.5% (acid)			
		Calcium benzoate	Calcium benzoate	69521-	218-235-4	No	0.5% (acid)			
		Ethyl benzoate	Ethyl benzoate	93-89-0	202-284-3	No	0.5% (acid)			
		Isobutyl benzoate	Isobutyl benzoate	120-50-3	204-401-3	No	0.5% (acid)			
		Isopropyl benzoate	Isopropyl benzoate	939-48-0	213-361-6	No	0.5% (acid)			
		Magnesium benzoate	Magnesium benzoate	553-70-8	209-045-2	No	0.5% (acid)			
		MEA-benzoate	MEA-benzoate	4337-66-0	224-387-2	No	0.5% (acid)			
		Methyl benzoate	Methyl benzoate	93-58-3	202-259-7	No	0.5% (acid)			
		Phenyl benzoate	Phenyl benzoate	93-99-2	202-293-2	No	0.5% (acid)			
		Potassium benzoate	Potassium benzoate	582-25-2	209-481-3	No	0.5% (acid)			
		Propyl benzoate	Propyl benzoate	2315-68-6	219-020-8	No	0.5% (acid)			
		Sodium benzoate	Sodium benzoate	532-32-1	208-534-8	No	0.5% (acid)			
		Panthenyl ethyl ether benzoate	Panthenyl ethyl ether benzoate			No				
		Pantotheryl ethylether benzoate	Pantotheryl ethylether benzoate			No				
2	P13	Propionic acid and its salts*		79-09-4	201-176-3	No	2% (acid)			
3	P14	Salicylic acid and its salts* <sup>1</sup>	Benzoic acid, 2-hydroxy-; 2-hydroxybenzoic acid; o-hydroxybenzoic acid	69-72-7	200-712-3	No	0.5% (acid)	Not to be used in preparations for children under 3 years of age, except for shampoos	Not to be used for children under 3 years of age <sup>1</sup>	
		Calcium salicylate	Calcium salicylate	824-35-1	212-525-4	No	0.5% (acid)	As above	As above	
		Magnesium salicylate	Magnesium salicylate	18917-89-0	242-669-3	No	0.5% (acid)	As above	As above	
		MEA-salicylate	MEA-salicylate	59866-70-5	261-932-2	No	0.5% (acid)	As above	As above	
		Potassium salicylate	Potassium salicylate	578-36-9	209-421-6	No	0.5% (acid)	As above	As above	
		Sodium salicylate	Sodium salicylate	54-21-7	200-198-0	No	0.5% (acid)	As above	As above	
		TEA-salicylate	TEA-salicylate	2174-16-5	218-531-3	No	0.5% (acid)	As above	As above	
		Titanium salicylate	Titanium salicylate			No	0.5% (acid)	As above	As above	
		Zinc salicylate	Zinc salicylate			No	0.5% (acid)	As above	As above	
4	P15	Sorbic acid (hexa-2,4-dienoic acid) and its salts*	2,4-Hexadienoic acid	110-44-1	203-768-7	No	0.6% (acid)			
		Calcium sorbate	Calcium sorbate	7492-55-9	231-321-6					
		Potassium sorbate	Potassium sorbate	24634-61-5 590-00-1	246-376-1					
		Sodium sorbate	Sodium sorbate	7757-81-5	231-819-3					
		TEA-sorbate	TEA-sorbate							
5	P39	Formaldehyde and paraformaldehyde*		50-00-0	200-001-8	Yes	0.2% (Except for products for oral hygiene) 0.1% (Products for oral hygiene) expressed as free formaldehyde	Prohibited in aerosol dispensers (sprays)		
7	P47	Biphenyl-2-ol (o-phenylphenol) and its salts*		90-43-7	201-993-5	No	0.2% Expressed as the phenol			
8	P81	Zinc pyrithione (INN)* <sup>3</sup>	Zinc pyrithione; Bis(1-hydroxy-2(1H)-pyridinethionato)zinc; zinc, Bis(1-hydroxy-2(1H)-pyridinethionato)-; zinc Bis(2-pyridylthio)-N-oxide	13463-41-7	215-226-7	No	Hair products: 1.0% Other products: 0.5%	Rinse-off products only No use in products for oral hygiene		
9	P51	Inorganic sulphites and hydrogensulphites* <sup>4</sup>				No	0.2% Expressed as free SO <sub>2</sub>			
		Ammonium bisulfite	Ammonium bisulfite	10192-30-0	233-469-7	No	0.2% Expressed as free SO <sub>2</sub>			
		Ammonium sulfite	Ammonium sulfite	10196-04-0	233-484-9	No	0.2% Expressed as free SO <sub>2</sub>			
		Potassium metabisulfite	Potassium metabisulfite	16731-55-8	240-795-3	No	0.2% Expressed as free SO <sub>2</sub>			
		Potassium sulfite	Potassium sulfite	10117-38-1	233-321-1	No	0.2% Expressed as free SO <sub>2</sub>			
		Sodium bisulfite	Sodium bisulfite	7631-90-5	231-548-0	No	0.2% Expressed as free SO <sub>2</sub>			
		Sodium metabisulfite	Sodium metabisulfite	7681-57-4	231-673-0	No	0.2% Expressed as free SO <sub>2</sub>			
		Sodium sulfite	Sodium sulfite	7757-83-7	231-821-4	No	0.2% Expressed as free SO <sub>2</sub>			

Asean countries: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, The Philippines, Singapore, Thailand, Vietnam			Taiwan	US	Australia	Japan				
Maximum authorised concentration	Limitations and requirements	Conditions of use and warnings which must be printed on the label	Maximum concentration	Maximum concentration CIR findings table 31 July 2008	Name (AAN) no positive list	Name	All cosmetics	Maximum content per 100 g		
								(1)	(2)	(3)
Rinse-off products, except oral care products: 2.5% (acid) Oral care products: 1.7% (acid) Leave-on products: 0.5% (acid)				Safe for use in all cosmetic formulations up to 5%; insufficient data to support safety in products which are inhaled	Benzoic acid	Benzoic acid	0.200			
0.5% (acid)										
0.5% (acid)				No CIR available		Aluminum benzoate	1.000 (As total)			
0.5% (acid)				No CIR available		Ammonium benzoate	1.000 (As total)			
0.5% (acid)				No CIR available						
0.5% (acid)				No CIR available		Calcium benzoate	1.000 (As total)			
0.5% (acid)				No CIR available						
0.5% (acid)				No CIR available						
0.5% (acid)				No CIR available		Magnesium benzoate	1.000 (As total)			
0.5% (acid)				No CIR available						
0.5% (acid)				No CIR available						
0.5% (acid)				No CIR available		Potassium benzoate	1.000 (As total)			
0.5% (acid)				No CIR available						
0.5% (acid)				Safe for use in all cosmetic formulations up to 5%; insufficient data to support safety in products which are inhaled		Sodium benzoate	1.000 (As total)			
				No CIR available		Panthenyl ethyl ether benzoate		No limit	0.300	0.300
				No CIR available		Pantotheryl ethylether benzoate		No limit	0.300	0.300
2% (acid)				No CIR available		Propionic acid	Not permitted			
0.5% (acid)	Not to be used in preparations for children under 3 years of age, except for shampoos	Not to be used for children under 3 years of age <sup>2</sup>		Safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection	Salicylic acid	Salicylic acid	0.200			
0.5% (acid)	As above	As above		As above		Calcium salicylate	1.000 (As total)			
0.5% (acid)	As above	As above		As above		Magnesium salicylate	1.000 (As total)			
0.5% (acid)	As above	As above		As above		MEA-salicylate	1.000 (As total)			
0.5% (acid)	As above	As above		As above		Potassium salicylate	1.000 (As total)			
0.5% (acid)	As above	As above		As above		Sodium salicylate	1.000 (As total)			
0.5% (acid)	As above	As above		As above		TEA-salicylate	1.000 (As total)			
0.5% (acid)	As above	As above		No CIR available		Titanium salicylate	1.000 (As total)			
0.5% (acid)	As above	As above		No CIR available		Zinc salicylate	1.000 (As total)			
0.6% (acid)				Up to 3%	Sorbic acid	Sorbic acid	0.500 (As total)			
				No CIR available		Calcium sorbate	0.500 (As total)			
				Up to 7%		Potassium sorbate	0.500 (As total)			
				No CIR available		Sodium sorbate	0.500 (As total)			
				No CIR available		TEA-sorbate	0.500 (As total)			
0.2% (except for products for oral hygiene) 0.1% (products for oral hygiene) expressed as free formaldehyde	Prohibited in aerosol dispensers (sprays)			0.2% or less as free formaldehyde, but keep to minimum; and should not be used in products intended to be aerosolised	Formaldehyde solution		Not permitted			
0.2% expressed as the phenol				No CIR available						
Hair products: 1.0% Other products: 0.5%	Rinse-off products only No use in products for oral hygiene			No CIR available	Pyrithione zinc	Zinc pyrithione		0.100	0.010	0.050
0.2% expressed as free SO <sub>2</sub>										
0.2% expressed as free SO <sub>2</sub>				Up to 32%						
0.2% expressed as free SO <sub>2</sub>				Not in current use						
0.2% expressed as free SO <sub>2</sub>				Not reported						
0.2% expressed as free SO <sub>2</sub>				Not reported						
0.2% expressed as free SO <sub>2</sub>				Up to 0.7%						
0.2% expressed as free SO <sub>2</sub>				Up to 14%						
0.2% expressed as free SO <sub>2</sub>				Up to 3%						

## REGULATIONS

							Europe, China (including Hong Hong)			
EC number	Colipa number	Substances	Other names	CAS number	EINECS number	Formaldehyde donor?	Maximum authorised concentration	Limitations and requirements	Conditions of use and warnings which must be printed on the label	
10	P66	Sodium iodate (ENTRY DELETED)	Sodium iodate	7681-55-2	231-672-5	No	Not permitted			
11	P68	Chlorobutanol (INN)	Chlorbutol; 2-propanol; 1,1,1-trichloro-2-methyl-; 1,1,1-trichloro-2-methyl-2-propanol	57-15-8	200-317-6	No	0.5%	Prohibited in aerosol dispensers (sprays)	Contains chlorobutanol	
12	P82	4-hydroxybenzoic acid and its salts and esters*				No	0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters			
		Butylparaben	Butylparaben; benzoic acid, 4-hydroxy-, butyl ester; butyl 4-hydroxybenzoate; butyl p-hydroxybenzoate; butyl parahydroxybenzoate	94-26-8	202-318-7	No	0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters			
		Isobutylparaben	Isobutylparaben; benzoic acid, 4-hydroxy-, 2-methylpropyl ester; 4-hydroxybenzoic acid, 2-methylpropyl ester; isobutyl p-hydroxybenzoate; isobutyl parahydroxybenzoate	4247-02-3	224-208-8	No	0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters			
		Methylparaben	Methylparaben; benzoic acid, 4-hydroxy-, methyl ester; 4-hydroxybenzoic acid, methyl ester; methyl 4-hydroxybenzoate; methyl p-hydroxybenzoate; methyl parahydroxybenzoate	99-76-3	202-785-7	No	0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters			
		Ethylparaben	Ethylparaben; benzoic acid, 4-hydroxy, ethyl ester; ethyl 4-hydroxybenzoate; ethyl p-hydroxybenzoate; ethyl parahydroxybenzoate; 4-hydroxybenzoic acid, ethyl ester	120-47-8	204-399-4	No	0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters			
		Propylparaben	Propylparaben; benzoic acid, 4-hydroxy, propyl ester; 4-hydroxybenzoic acid, propyl ester; propyl p-hydroxybenzoate; propyl parahydroxybenzoate	94-13-3	202-307-7	No	0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters			
		Isodecylparaben	Isodecylparaben				As above			
		Isopropylparaben	Isopropylparaben; benzoic acid, 4-hydroxy, 1-methylethyl ester; 4-hydroxybenzoic acid, 1-methylethyl ester; 1-methylethyl-4-hydroxybenzoate	4191-73-5	224-069-3	No	As above			
		Benzylparaben	Benzylparaben	94-18-8	202-311-9	No	As above			
		Phenylparaben	Phenylparaben	17696-62-7	241-698-9	No	As above			
		Sodium butylparaben	Sodium butylparaben	36457-20-2	253-049-7	No	As above			
		Sodium ethylparaben	Sodium ethylparaben	35285-68-8	252-487-6	No	As above			
		Sodium isobutylparaben	Sodium isobutylparaben	84930-15-4	284-595-4	No	As above			
		Sodium methylparaben	Sodium methylparaben	5026-62-0	225-714-1	No	As above			
		Sodium paraben	Sodium paraben	114-63-6	204-051-1	No	As above			
		Sodium propylparaben	Sodium propylparaben	35285-69-9	252-488-1	No	As above			
13	P5	3-Acetyl-6-methylpyran-2,4 (3H)-dione (dehydroacetic acid) and its salts	Dehydroacetic acid	520-45-6	208-293-9	No	0.6% (acid)	Prohibited in aerosol dispensers (sprays)		
		Sodium dehydroacetate	Sodium dehydroacetate	4418-26-2	224-580-1	No	0.6% (acid)	Prohibited in aerosol dispensers (sprays)		
14	P6	Formic acid and its sodium salt*	Formic acid	64-18-6	200-579-1	No	0.5% (expressed as acid)			
		Sodium formate	Sodium formate	141-53-7	205-488-0	No	0.5% (expressed as acid)			
15	P9	3,3'-Dibromo-4,4'-hexamethylene-dioxidibenzamidine (dibromohexamidine) and its salts (including isethionate)	Bis(bromo-2-amidino-4-phenoxy)-1,3-propane diisethionate	93865-83-8	299-116-4	No	0.1%			

Asean countries: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, The Philippines, Singapore, Thailand, Vietnam			Taiwan	US	Australia	Japan				
Maximum authorised concentration	Limitations and requirements	Conditions of use and warnings which must be printed on the label	Maximum concentration	Maximum concentration CIR findings table 31 July 2008	Name (AAN) no positive list	Name	All cosmetics	Maximum content per 100 g		
								(1)	(2)	(3)
Not permitted.				Unsafe			Not permitted			
0.5%	Prohibited in aerosol dispensers (sprays)	Contains chlorobutanol		No CIR available	Chlorbutol	Chlorobutanol	0.100			
0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters					4-Hydroxybenzoic acid; butyl, ethyl, isobutyl, methyl, propyl, sodium butyl, sodium methyl, sodium propyl hydroxybenzoate	Parahydroxybenzoate ester	1.000 (As total)			
0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters				Considered safe as used up to 0.4% if used alone; parabens mixture up to 0.8%	Butyl hydroxybenzoate	Butyl parahydroxybenzoate	1.000 (As total)			
0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters				Considered safe as used up to 0.4% if used alone; parabens mixture up to 0.8%	Isobutyl hydroxybenzoate	Butyl Parahydroxybenzoate	1.000 (As total)			
0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters				Considered safe as used up to 0.4% if used alone; parabens mixture up to 0.8%	Methyl hydroxybenzoate	Methyl parahydroxybenzoate	1.000 (As total)			
0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters				Considered safe as used up to 0.4% if used alone; parabens mixture up to 0.8%	Ethyl hydroxybenzoate	Ethyl parahydroxybenzoate	1.000 (As total)			
0.4% (acid) for 1 ester 0.8% (acid) for mixtures of esters				Considered safe as used up to 0.4% if used alone; parabens mixture up to 0.8%	Propyl hydroxybenzoate	Propyl parahydroxybenzoate	1.000 (As total)			
As above				No CIR available		Isodecylparaben	1.000 (As total)			
As above				Considered safe as used up to 0.4% if used alone; parabens mixture up to 0.8%	No AAN name	Isopropyl parahydroxybenzoate	1.000 (As total)			
As above				As above		Benzylparaben	1.000 (As total)			
As above				No CIR available		Phenylparaben	1.000 (As total)			
As above				As above		Sodium butylparaben	1.000 (As total)			
As above				As above		Sodium ethylparaben	1.000 (As total)			
As above				As above		Sodium isobutylparaben	1.000 (As total)			
As above				As above		Sodium methylparaben	1.000 (As total)			
As above				As above		Sodium paraben	1.000 (As total)			
As above				As above		Sodium propylparaben	1.000 (As total)			
0.6% (acid)	Prohibited in aerosol dispensers (sprays)			Considered safe as used up to 0.7%	Dehydroacetic	Dehydroacetic acid	0.500 (As total)			
0.6% (acid)	As above			Considered safe as used up to 0.6%		Sodium dehydroacetate	0.500 (As total)			
0.5% (expressed as acid)				Safe with qualifications up to 64 ppm of the free acid	Formic acid		Not permitted			
0.5% (expressed as acid)				No CIR available						
0.1%				No CIR available						

# REGULATIONS

							Europe, China (including Hong Hong)			
EC number	Colipa number	Substances	Other names	CAS number	EINECS number	Formaldehyde donor?	Maximum authorised concentration	Limitations and requirements	Conditions of use and warnings which must be printed on the label	
16	P12	Thiomersal (INN)		54-64-8	200-210-4	No	0.007% (of Hg). If mixed with other mercurial compounds authorised by this Directive, the maximum concentration of Hg remains fixed at 0.007%	For eye make-up and eye make-up remover only	Contains thiomersal	
17	P48	Phenylmercuric salts (including borate)		See below	See below	No	As above	As above	Contains phenyl mercuric compounds	
		Phenyl mercuric acetate	Phenyl mercuric acetate; (acetato-O)phenylmercury; mercury, (acetato-O) phenyl-	62-38-4	200-532-5	No	As above	As above	As above	
		Phenyl mercuric benzoate	Phenyl mercuric benzoate; (benzoato-O)phenylmercury; mercury, (benzoato-O) phenyl-	94-43-9	202-331-8	No	As above	As above	As above	
		Phenyl mercuric borate	Phenyl mercuric borate; mercurate(2-), [orthoboroato(3-)-O]phenyl, dihydrogen; [orthoboroato(3-)-O]phenylmercurate(2-), di-hydrogen	102-98-7	203-068-1	No	As above	As above	As above	
18	P16	Undec-10-enoic acid and salts <sup>+</sup>	Undecanoic acid; hendecanoic acid, undecylenic acid, 10-undecenoic acid	112-37-8	203-964-2	No	0.2% (acid)	See Annex VI, Part 2, No 8		
19	P20	Hexetidine (INN) <sup>+</sup>	Hexetidine	141-94-6	205-513-5	Yes	0.1%			
20	P23	5-Bromo-5-nitro-1,3 dioxane	1,3-Dioxane, 5-bromo-5-nitro-	30007-47-7	250-001-7	Yes	0.1%	Rinse-off products only. Avoid formation of nitrosamines		
21	P24	Bronopol (INN) <sup>+</sup>	2-Bromo-2-nitropropane-1,3-diol	52-51-7	200-143-0	No	0.1%	Avoid formation of nitrosamines		
22	P74	2,4-Dichlorobenzyl alcohol <sup>+</sup>	Benzenemethanol, 2,8-dichloro-; 2,4-dichloro-benzenemethanol; 2,4-dichlorobenzyl alcohol	133-53-9	205-109-9	No	0.15%			
23	P29	Triclocarban (INN) <sup>+5</sup>	TCC; 3,4,4'-trichlorocarbanilide; urea, N-(4-chlorophenyl)-N'-(3,4-dichlorophenyl)-	101-20-2	202-924-1	No	0.2%	Purity criteria: 3,3',4,4'-tetra-chloroazobenzene <1 ppm 3,3',4,4'-tetra-chloroazoxybenzene <1 ppm		
24	P30	4-Chloro-m-cresol <sup>+</sup>	p-Chloro-m-cresol; 4-chloro-3-methyl phenol; parachlorometacresol; PCMC; phenol, 4-chloro-3-methyl-	59-50-7	200-431-6	No	0.2%	Prohibited in the products intended to come into contact with mucous membranes		
25	P32	Triclosan (INN) <sup>+</sup>	5-Chloro-2-(2,4-dichlorophenoxy)phenol; phenol, 5-chloro-2-(2,4-dichlorophenoxy)-; 2,4,4'-trichloro-2'-hydroxy diphenyl ether	3380-34-5	222-182-2	No	0.3%			
26	P37	4-Chloro-3,5-xyleneol <sup>+</sup>	Chloroxylenol; 4-chloro-3,5-dimethylphenol; p-chloro-m-xyleneol; phenol, 4-chloro-3,5-dimethyl-	88-04-0	201-793-8	No	0.5%			
27	P43	3,3'-Bis(1-hydroxy-methyl-2,5-dioximidazolidin-4-yl)-1,1'-methyleneurea ("Imidazolidinyl urea") <sup>+</sup>	Imidazolidinyl urea N, N'-methylenebis[N"-[1-(hydroxymethyl)-2,5-dioxo-4-imidazolidinyl]urea]; urea, N,N"-methylenebis [N'-[1-(hydroxymethyl)-2,5-dioxo-4-imidazolidinyl]-	39236-46-9	254-372-6	Yes	0.6%			
28	P52	Poly 1-hexamethylene-biguanide hydrochloride <sup>+</sup>	Polyaminopropyl biguanide poly(methylene), alpha, omega-bis[[[aminoimino-methyl]amino]iminomethyl] amino]-dihydrochloride	70170-61-5 28757-47-3		No	0.3%			
29	P53	2-Phenoxyethanol <sup>+</sup>	Phenoxyethanol ethanol, 2-phenoxy-; ethylene glycol monopropyl ether; 2-phenoxyethanol; phenoxytol	122-99-6	204-589-7	No	1.0%			
30	P55	Hexamethyl-enetetramine <sup>+</sup> (methenamine) (INN)	Hexamethyleneamine; hexamethylene tetramine; 1,3,5,7-tetraazatricyclo [3,3,1,1]decane	100-97-0	202-905-8	Yes	0.15%			



Asean countries: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, The Philippines, Singapore, Thailand, Vietnam			Taiwan	US	Australia	Japan				
Maximum authorised concentration	Limitations and requirements	Conditions of use and warnings which must be printed on the label	Maximum concentration	Maximum concentration CIR findings table 31 July 2008	Name (AAN) no positive list	Name	All cosmetics	Maximum content per 100 g		
								(1)	(2)	(3)
0.007% (of Hg). If mixed with other mercurial compounds authorised by this Directive, the maximum concentration of Hg remains fixed at 0.007%	For eye make-up and eye make-up remover only	Contains thiomersal		No CIR available	Thiomersal		Not permitted			
As above	As above	Contains phenyl mercuric compounds		As above	Phenylmercuric acetate; borate; nitrate		Not permitted			
As above	As above	As above		As above	Phenylmercuric acetate; borate; nitrate		Not permitted			
As above	As above	As above		As above			Not permitted			
As above	As above	As above		As above			Not permitted			
0.2% (acid)	See Annex VI, Part 2, No 8			As above	Undecanoic acid		Not permitted			
0.1%				As above	No AAN name		Not permitted			
0.1%	Rinse-off products only. Avoid formation of nitrosamines			0.1% or less; but should not be used under circumstances where its actions with amines or amides can result in the formation of nitrosamines or nitrosamides	5-Bromo-5-nitro-1,3-dioxane		Not permitted			
0.1%	Avoid formation of nitrosamines			Considered safe as used up to a maximum concentration of 0.1% except under circumstances where its action with amines or amides can result in the formation of nitrosamines or nitrosamides	Bronopol		Not permitted			
0.15%				No CIR available	Dichlorobenzyl alcohol		Not permitted			
0.2%	Purity criteria: 3,3', 4,4'-tetra-chloroazo-benzene <1 ppm 3,3', 4,4'-tetra-chloroazoxybenzene <1 ppm		0.2%	As above	Triclocarban	Trichlorocarbanilide		No limit	0.300	Note 1
0.2%	Prohibited in products intended to come into contact with mucous membranes			Up to 5%	Chlorocresol	p-Chloro-m-cresol	0.500	0.200	0.150	
0.3%			0.3%	No CIR available	Triclosan	2,4,4'-Trichloro-2'-hydroxy diphenyl ether	0.1% (not all product categories)			
0.5%			0.5%	Considered safe as used	Chloroxylenol	Chloroxylenol		0.300	0.200	0.200
0.6%				Allowed up to 0.6% without limitations	Imidurea	Imidazolidinyl urea		0.300	Note 1	Note 1
0.3%				No CIR available			Not permitted			
1.0%				Considered safe as used up to 5%	Phenoxyethanol	2-Phenoxyethanol	1.000			
0.15%				Up to 0.16%; but should not be used in products intended to be aerosolised	Hexamine		Not permitted			