

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 IV. (See end of Document for details)

ANNEX IV

LIST OF COLORANTS ALLOWED IN COSMETIC PRODUCTS

Preamble

Without prejudice to other provisions in this Regulation, a colorant shall include its salts and lakes and when a colorant is expressed as a specific salt, its other salts and lakes shall also be included.

Reference number	Substance identification					Conditions			Wording of conditions of use and warnings
	Chemical Name	Colour index Number/ Name of Common Ingredients Glossary	CAS number	EC number	Colour	Product type, Body parts	Maximum concentration in ready for use preparation	Other	
a	b	c	d	e	f	g	h	i	j
1	Sodium tris(1,2-naphthoquinone 1-oximato-O,O')ferrate(1-)	10006			Green	Rinse-off products			
2	Trisodium tris[5,6-dihydro-5-(hydroxyimino)-6-oxonaphthalene-2-sulphonato(2-)-N5,O6]ferrate(3-)	10020			Green	Not to be used in products applied on mucous membranes			
3	Disodium 5,7-dinitro-8-oxidonaphthalene-2-sulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments	10316			Yellow	Not to be used in eye products			

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4	2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	11680			Yellow	Not to be used in products applied on mucous membranes			
5	2-[(4-Chloro-2-nitrophenyl)azo]-N-(2-chlorophenyl)-3-oxobutyramide	11710			Yellow	Not to be used in products applied on mucous membranes			
6	2-[(4-Methoxy-2-nitrophenyl)azo]-3-oxo-N-(o-tolyl)butyramide	11725			Orange	Rinse-off products			
7	4-(Phenylazo)resorcinol	11920			Orange				
8	4-[(4-Ethoxyphenyl)azo]naphthol	12010			Red	Not to be used in products applied on mucous membranes			
9	1-[(2-Chloro-4-nitrophenyl)azo]-2-naphthol and its insoluble barium, strontium and zirconium lakes, salts and pigments	12085			Red		3 %		

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10	1-[(4-Methyl-2-nitrophenyl)azo]-2-naphthol	12120			Red	Rinse-off products			
11	3-Hydroxy-N-(o-tolyl)-4-[(2,4,5-trichlorophenyl)azo]naphthalene-2-carboxamide	12370			Red	Rinse-off products			
12	N-(4-Chloro-2-methylphenyl)-4-[(4-chloro-2-methylphenyl)azo]-3-hydroxynaphthalene-2-carboxamide	12420			Red	Rinse-off products			
13	4-[(2,5-Dichlorophenyl)azo]-N-(2,5-dimethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide	12480			Brown	Rinse-off products			
14	N-(5-Chloro-2,4-dimethoxyphenyl)-4-[[5-[(diethylamino)sulphonyl]-2-methoxyphenyl]azo]-3-hydroxynaphthalene-2-carboxamide	12490			Red				
15	2,4-Dihydro-5-methyl-2-phenyl-4-(phenylazo)-3H-pyrazol-3-one	12700			Yellow	Rinse-off products			
16	Disodium 2-amino-5-[(4-sulphonatophenyl)azo]benzenesulphonate	13015			Yellow				

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17	Sodium 4-(2,4-dihydroxyphenylazo)benzenesulphonate	14270			Orange				
18	Disodium 3-[(2,4-dimethyl-5-sulphonatophenyl)azo]-4-hydroxynaphthalene-1-sulphonate	14700			Red				
19	Disodium 4-hydroxy-3-[(4-sulphonatonaphthyl)azo]naphthalenesulphonate	14720		222-657-4	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 122)	
20	Disodium 6-[(2,4-dimethyl-6-sulphonatophenyl)azo]-5-hydroxynaphthalene-1-sulphonate	14815			Red				
21	Sodium 4-[(2-hydroxy-1-naphthyl)azo]benzenesulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments	15510			Orange	Not to be used in eye products			
22	Calcium disodium bis[2-chloro-5-[(2-hydroxy-1-naphthyl)azo]-4-sulphonatobenzoate]	15525			Red				

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23	Barium bis[4-[(2-hydroxy-1-naphthyl)azo]-2-methylbenzenesulphonate]	15580			Red				
24	Sodium 4-[(2-Hydroxy-1-naphthyl)azo]naphthalenesulphonate	15620			Red	Rinse-off products			
25	Sodium 2-[(2-hydroxynaphthyl)azo]naphthalenesulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments	15630			Red		3 %		
26	Calcium bis[3-hydroxy-4-(phenylazo)-2-naphthoate]	15800			Red	Not to be used in products applied on mucous membranes			
27	Disodium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate and its insoluble barium, strontium and zirconium lakes, salts	15850		226-109- 1	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 180)	

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	and pigments							
28	Disodium 15865 4-[(5-chloro-4-methyl-2-sulphonatophenyl)azo]-3-hydroxy-2-naphthoate and its insoluble barium, strontium and zirconium lakes, salts and pigments			Red				
29	Calcium 15880 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate			Red				
30	Disodium 15980 6-hydroxy-5-[(3-sulphonatophenyl)azo]naphthalene-2-sulphonate			Orange				
31	Disodium 15985 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments		220-491	Yellow			Purity criteria as set out in Commission Directive 95/45/EC (E 110)	

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32	Disodium 6-hydroxy-5-[(2-methoxy-4-sulphonato-m-tolyl)azo]naphthalene-2-sulphonate	16035	247-368	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 129)	
33	Trisodium 3-hydroxy-4-[(4'-sulphonatonaphthyl)azo]naphthalene-2,7-disulphonate	16185	213-022	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 123)	
34	Disodium 7-hydroxy-8-(phenylazo)naphthalene-1,3-disulphonate	16230		Orange	Not to be used in products applied on mucous membranes			
35	Trisodium 1-(1-naphthylazo)-2-hydroxynaphthalene-4',6,8-trisulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments	16255	220-036	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 124)	
36	Tetrasodium 7-hydroxy-8-[(4-sulphonato-1-	16290		Red				

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	naphthyl)azo]naphthalene-1,3,6-trisulphonate							
37	Disodium 17200 5-amino-4-hydroxy-3-(phenylazo)naphthalene-2,7-disulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments			Red				
38	Disodium 18050 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2,7-disulphonate		223-098- 9	Red	Not to be used in products applied on mucous membranes		Purity criteria as set out in Commission Directive 95/45/EC (E 128)	
39	2,7-Naphthalenedisulfonic acid, 3-((4-cyclohexyl-2-methylphenyl)azo)-4-hydroxy-5-(((4-methylphenyl)sulfonyl)amino)-, disodium salt	18130		Red	Rinse-off products			
40	Hydrogen 18690 bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)			Yellow	Rinse-off products			

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41	Disodium 18736 hydrogen bis[5- chloro-3- [(4,5- dihydro-3- methyl-5- oxo-1- phenyl-1H- pyrazol-4- yl)azo]-2- hydroxybenzenesulphonato(3-)]chromate(3-)			Red	Rinse- off products			
42	Sodium 18820 4-(3- hydroxy-5- methyl-4- (phenylazo)pyrazol-2- yl)benzenesulphonate			Yellow	Rinse- off products			
43	Disodium 18965 2,5- dichloro-4- (5- hydroxy-3- methyl-4- ((sulphophenyl)azo)pyrazol-1- yl)benzenesulphonate			Yellow				
44	Trisodium 19140 5- hydroxy-1- (4- sulphophenyl)-4- ((4- sulphophenyl)azo)pyrazole-3- carboxylate and its insoluble barium, strontium and zirconium lakes, salts and pigments		217-699-5	Yellow			Purity criteria as set out in Commission Directive 95/45/ EC (E 102)	
45	N,N'- 20040 (3,3'- Dimethyl[1,1'- biphenyl]-4,4'-			Yellow	Rinse- off products		Maximum 3,3'- dimethylbenzidine concentration	

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		diyl)bis[2- [(2,4- dichlorophenyl)azo]-3- oxobutyramide]						in the colouring agent: 5 ppm
46	Sodium 4- amino-5- hydroxy-3- ((4- nitrophenyl)azo)-6- (phenylazo)naphthalene-2,7- disulphonate	20470			Black	Rinse- off products		
47	2,2'- [(3,3'- Dichloro[1,1'- biphenyl]-4,4'- diyl)bis(azo)]bis[N- (2,4- dimethylphenyl)-3- oxobutyramide]	21100			Yellow	Rinse- off products		Maximum 3,3'- dimethylbenzidine concentration in the colouring agent: 5 ppm
48	2,2'- [(3,3'- Dichloro[1,1'- biphenyl]-4,4'- diyl)bis(azo)]bis[N- (4- chloro-2,5- dimethoxyphenyl)-3- oxobutyramide]	21108			Yellow	Rinse- off products		Maximum 3,3'- dimethylbenzidine concentration in the colouring agent: 5 ppm
49	2,2'- [Cyclohexylidenebis[(2- methyl-4,1- phenylene)azo]]bis[4- cyclohexylphenol]	21230			Yellow	Not to be used in products applied on mucous membranes		
50	Disodium 4,6- dihydroxy-3- [[4-[1- [4-[[1- hydroxy-7- [(phenylsulphonyl)oxy]-3- sulphonato-2- naphthyl]azo]phenyl]cyclohexyl]phenyl]azo]naphthalene-2- sulphonate	24790			Red	Rinse- off products		

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51	1-(4-(Phenylazo)phenylazo)-2-naphthol	26100			Red	Not to be used in products applied on mucous membranes		Purity criteria: aniline ≤ 0,2 % 2-naphthol ≤ 0,2 % 4-aminoazobenzene ≤ 0,1 % 1-(phenylazo)-2-naphthol ≤ 3 % 1-[2-(phenylazo)phenylazo]-2-naphthalenol ≤ 2 %	
52	Tetrasodium 6-amino-4-hydroxy-3-[[[7-sulphonato-4-[(4-sulphonatophenyl)azo]-1-naphthyl]azo]naphthalene-2,7-disulphonate	27755			Black				
53	Tetrasodium 1-acetamido-2-hydroxy-3-(4-((4-sulphonatophenylazo)-7-sulphonato-1-naphthylazo))naphthalene-4,6-disulphonate	28440		219-746-3	Black			Purity criteria as set out in Commission Directive 95/45/EC (E 151)	
54	Benzenesulphonic acid, 2,2'-(1,2-ethenediyl)bis[5-nitro-, disodium salt, reaction products with	40215			Orange	Rinse-off products			

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	4-[(4-aminophenyl)azo] benzenesulfonic acid, sodium salts							
55	beta Carotene	40800		230-636	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E160a)
56	8'-apo-.beta.-Caroten-8'-al	40820			Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 160e)
57	Ethyl 8'-apo-.beta.-caroten-8'-oate	40825		214-173	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 160f)
58	Canthaxanthin	40850		208-187	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 161g)
59	Ammonium 4-(alpha-(p-(diethylamino)phenyl)-2,4-	42045			Blue	Not to be used in products applied		

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	disulfo-2,5-cyclohexadien-1-ylidene)-2,5-cyclohexadien-1-ylidene)-diethyl-, hydroxide, monosodium salt				on mucous membranes			
60	Ethanaminium-42051 N-(4-((4-(diethylamino)phenyl)(5-hydroxy-2,4-disulfo-2,5-cyclohexadien-1-ylidene)-N-ethyl-, hydroxide, inner salt, calcium salt (2:1) and its insoluble barium, strontium and zirconium lakes, salts and pigments	222-573-8	Blue				Purity criteria as set out in Commission Directive 95/45/EC (E 131)	
61	Benzene-42053 methanaminium, N-ethyl-N-(4-((4-(ethyl((3-sulfo-phenyl)methyl)amino)phenyl)(4-hydroxy-2-sulfo-2,5-cyclohexadien-1-ylidene)-3-sulfo-, hydroxide,		Green					

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	inner salt, disodium salt							
62	Hydrogen-42080 (benzyl) [4-[[4-[benzylethylamino]phenyl] (2,4-disulphonatophenyl)methylene]cyclohexa-2,5-dien-1-ylidene] (ethyl)ammonium, sodium salt			Blue	Rinse-off products			
63	Benzene-42090 methanaminium, N-ethyl-N-(4-((4-(ethyl((3-sulfophenyl)methyl)amino)phenyl) (2-sulfophenyl)methylene)-2,5-cyclohexadien-1-ylidene)-3-sulfo-, hydroxide, inner salt, disodium salt		223-339-8	Blue			Purity criteria as set out in Commission Directive 95/45/EC (E 133)	
64	Hydrogen-42100 [4-[(2-chlorophenyl) [4-[ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] (ethyl) (3-sulphonatobenzyl)ammonium, sodium salt			Green	Rinse-off products			

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65	Hydrogen [4-[(2-chlorophenyl) [4- [ethyl(3-sulphonatobenzyl)amino]- o- tolyl]methylene]-3- methylcyclohexa-2,5- dien-1- ylidene] (ethyl) (3-sulphonatobenzyl)ammonium, sodium salt	42170			Green	Rinse- off products			
66	(4-(4-Aminophenyl) (4- iminocyclohexa-2,5- dienylidene)methyl)-2- methylamine hydrochloride	42510			Violet	Not to be used in products applied on mucous membranes			
67	4-[(4-Amino- m- tolyl) (4- imino-3- methylcyclohexa-2,5- dien-1- ylidene)methyl]- o- toluidine monohydrochloride	42520			Violet	Rinse- off products	5ppm		
68	Hydrogen [4-[[4-(diethylamino)phenyl] [4- [ethyl[(3-sulphonatobenzyl)amino]- o- tolyl]methylene]-3- methylcyclohexa-2,5- dien-1- ylidene] (ethyl)	42735			Blue	Not to be used in products applied on mucous membranes			

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	(3-sulphonatobenzyl)ammonium, sodium salt							
69	[4-[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	44045			Blue	Not to be used in products applied on mucous membranes		
70	Hydrogen [4-[4-(dimethylamino)-alpha-(2-hydroxy-3,6-disulphonato-1-naphthyl)benzylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium, monosodium salt	44090		221-409-2	Green		Purity criteria as set out in Commission Directive 95/45/EC (E 142)	
71	Hydrogen 3,6-bis(diethylamino)-9-(2,4-disulphonatophenyl)xanthylium, sodium salt	45100			Red	Rinse-off products		
72	Hydrogen 9-(2-carboxylatophenyl)-3-(2-methylamino)-6-(2-methyl-4-sulphoanilino)xanthylium, monosodium salt	45190			Violet	Rinse-off products		
73	Hydrogen 9-(2,4-disulphonatophenyl)-3,6-bis(ethylamino)-2,7-dimethylxanthylium, monosodium salt	45220			Red	Rinse-off products		

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74	Disodium 2-(3-oxo-6-oxidoxanthen-9-yl)benzoate	45350		Yellow	6 %	
75	4',5'-Dibromo-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one and its insoluble barium, strontium and zirconium lakes, salts and pigments	45370		Orange		Not more than 1 % 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid and 2 % 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid
76	Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate and its insoluble barium, strontium and zirconium lakes, salts and pigments	45380		Red		Not more than 1 % 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid and 2 % 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid
77	3',6'-Dihydroxy-4',5'-dinitrospiro[isobenzofuran-1(3H),9'-	45396		Orange	1 %, when used	Only in free acid

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							in lip products	form, when used in lip products	
78	Dipotassium 3,6-dichloro-2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthene-9-yl)benzoate	45405			Red	Not to be used in eye products		Not more than 1 % 2-(6-hydroxy-3-oxo-3H-xanthene-9-yl) benzoic acid and 2 % 2-(bromo-6-hydroxy-3-oxo-3H-xanthene-9-yl) benzoic acid	
79	3,4,5,6-Tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthene-9-yl)benzoic acid and its insoluble barium, strontium and zirconium lakes, salts and pigments	45410			Red			Not more than 1 % 2-(6-hydroxy-3-oxo-3H-xanthene-9-yl) benzoic acid and 2 % 2-(bromo-6-hydroxy-3-oxo-3H-xanthene-9-yl) benzoic acid	
80	Disodium 2-(2,4,5,7-	45430		240-474	Red			Purity criteria as set	

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	tetraiodo-6-oxido-3-oxoxanthene-9-yl)benzoate and its insoluble barium, strontium and zirconium lakes, salts and pigments						out in Commission Directive 95/45/EC (E 127)	
81	1,3-Isobenzofurandione, reaction products with methylquinoline and quinoline	47000			Yellow	Not to be used in products applied on mucous membranes		
82	1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts	47005		305-897-5	Yellow		Purity criteria as set out in Commission Directive 95/45/EC (E 104)	
83	Hydrogen 9-[(3-methoxyphenyl)amino]-7-phenyl-5-(phenylamino)-4,10-disulphonatobenzo[a]phenazinium, sodium salt	50325			Violet	Rinse-off products		
84	Sulfonated nigrosine color	50420			Black	Not to be used in products applied on mucous membranes		

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85	8,18-Dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b:3',2'-m]triphenodioxazine	51319			Violet	Rinse-off products			
86	1,2-Dihydroxyanthraquinone	58000			Red				
87	Trisodium 8-hydroxypyrene-1,3,6-trisulphonate	59040			Green	Not to be used in products applied on mucous membranes			
88	1-Anilino-4-hydroxyanthraquinone	60724			Violet	Rinse-off products			
89	1-Hydroxy-4-(p-toluidino)anthraquinone	60725			Violet				
90	Sodium 4-[(9,10-dihydro-4-hydroxy-9,10-dioxo-1-anthryl)amino]toluene-3-sulphonate	60730			Violet	Not to be used in products applied on mucous membranes			
91	1,4-bis(p-Tolylamino)anthraquinone	61565			Green				
92	Disodium 2,2'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(5-methylsulphonate)	61570			Green				
93	Sodium 3,3'-(9,10-dioxoanthracene-1,4-	61585			Blue	Rinse-off products			

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	diylldiimino)bis(2,4,6-trimethylbenzenesulphonate)							
94	Sodium 1-amino-4-(cyclohexylamino)-9,10-dihydro-9,10-dioxoanthracene-2-sulphonate	62045			Blue	Rinse-off products		
95	6,15-Dihydroanthrazine-5,9,14,18-tetrone	69800			Blue			
96	7,16-dichloro-6,15-dihydroanthrazine-5,9,14,18-tetrone	69825			Blue			
97	Bisbenzimidazole[2,1-b:2',1'-i]benzo[1,mn][3,8]phenanthroline-8,17-dione	71405			Orange	Not to be used in products applied on mucous membranes		
98	2-(1,3-Dihydro-3-oxo-2H-indazol-2-ylidene)-1,2-dihydro-3H-indol-3-one	73000			Blue			
99	Disodium 5,5'-(2-(1,3-dihydro-3-oxo-2H-indazol-2-ylidene)-1,2-dihydro-3H-indol-3-one)disulphonate	73015	212-728-8	Blue			Purity criteria as set out in Commission Directive 95/45/EC (E 132)	
100	6-Chloro-2-(6-chloro-4-	73360			Red			

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			methyl-3-oxobenzothien-2(3H)-ylidene)-4-methylbenzothiophene-3(2H)-one						
101	5-Chloro-2-(5-chloro-7-methyl-3-oxobenzothien-2(3H)-ylidene)-7-methylbenzothiophene-3(2H)-one	73385			Violet				
102	5,12-Dihydroquino[2,3-b]acridine-7,14-dione	73900			Violet	Rinse-off products			
103	5,12-Dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione	73915			Red	Rinse-off products			
104	29H,31H-74100 Phthalocyanine				Blue	Rinse-off products			
105	29H,31H-74160 Phthalocyaninato(2-)-N29,N30,N31,N32 copper				Blue				
106	Disodium[29H,31H-phthalocyaninedisulphonato(4-)-N29,N30,N31,N32] cuprate (2-)	74180			Blue	Rinse-off products			
107	Polychloro-copper phthalocyanine	74260			Green	Not to be used in eye products			
108	8,8'-diapo- ψ , ψ -Carotenedioic acid	75100			Yellow				

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109	Annatto	75120		215-735-0289-561-2/230-248-7	Orange		Purity criteria as set out in Commission Directive 95/45/EC (E 160b)	
110	Lycopene	75125		—	Yellow		Purity criteria as set out in Commission Directive 95/45/EC (E 160d)	
111	CI Food Orange 5	75130		214-171-0	Orange		Purity criteria as set out in Commission Directive 95/45/EC (E 160a)	
112	(3R)-beta-4-Caroten-3-ol	75135			Yellow			
113	2-Amino-1,7-dihydro-6H-purin-6-one	75170			White			
114	Curcumin	75300		207-280-5	Yellow		Purity criteria as set out in Commission Directive 95/45/EC (E 100)	
115	Carmines	75470		215-680-0215-023-3/215-724-4	Red		Purity criteria	

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								as set out in Commission Directive 95/45/EC (E 120)	
116	Trisodium (2S-trans)-[18-carboxy-20-(carboxymethyl)-13-ethyl-2,3-dihydro-3,7,12,17-tetramethyl-8-vinyl-21H,23H-porphine-2-propionato(5-)-N21,N22,N23,N24]cuprate(3-) (Chlorophylls)	75810		215-800-7267-536-6/208-272-4/287-483-3/239-830-5/246-020-5	White			Purity criteria as set out in Commission Directive 95/45/EC (E 140, E 141)	
117	Aluminium	77000		231-072-3	White			Purity criteria as set out in Commission Directive 95/45/EC (E 173)	
118	Aluminium hydroxide sulphate	77002			White				
119	Natural hydrated aluminium silicate, $\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$, containing calcium, magnesium or iron carbonates, ferric hydroxide, quartz-sand, mica,	77004			White				

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	etc. as impurities							
120	Lazurite	77007			Blue			
121	Aluminum silicate coloured with ferric oxide	77015			Red			
122	Barium sulfate	77120			White			
123	Bismuth chloride oxide	77163			White			
124	Calcium carbonate	77220		207-439-9215-279-6	White		Purity criteria as set out in Commission Directive 95/45/EC (E 170)	
125	Calcium sulfate	77231			White			
[^{F2} 126]	Carbon black	77266	1333-86-4, 15-609-9, 7440-44-0, 31-153-3, 931-328-0, 931-334-3	Black			Purity > 97 %, with the following impurity profile: Ash content ≤ 0,15 %, total sulphur ≤ 0,65 %, total PAH ≤ 500 ppb and benzo(a)pyrene	

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								≤ 5 ppb, dibenz(a,h)anthracene ≤ 5 ppb, total As \leq 3 ppm, total Pb \leq 10 ppm, total Hg \leq 1 ppm.	
126a	Carbon black	77266 (nano) Carbon Black (nano)	1333-86-7440-44	215-609-031-153-3, 931-328-0, 931-334-3	Black		10 %	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 > 97 %, with the following impurity profile: Ash content \leq 0,15 %, total sulphur]

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b ^[F1]For use as a UV-filter, see Annex VI, No 30 and No 30a.]

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								\leq 0,65 %, total PAH \leq 500 ppb and benzo(a)pyrene \leq 5 ppb, dibenz(a,h)anthracene \leq 5 ppb, total As \leq 3 ppm, total Pb \leq 10 ppm, and total Hg \leq 1 ppm; Primary particle size \geq 20 nm.
127	Charcoal,77267 bone. A fine black powder obtained by burning animal bones in a closed container. It consists primarily			Black				

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	of calcium phosphate and carbon							
128	Coke black	77268-1			Black			
129	Chromium (III) oxide	77288			Green		free from chromate ion	
130	Chromium (III) hydroxide	77289			Green		free from chromate ion	
131	Cobalt Aluminum Oxide	77346			Green			
132	Copper	77400			Brown			
133	Gold	77480		231-165-9	Brown		Purity criteria as set out in Commission Directive 95/45/EC (E 175)	
134	Iron oxide	77489			Orange			
135	Iron Oxide Red	77491		215-168-2	Red		Purity criteria as set out in Commission Directive 95/45/EC (E 172)	
136	Iron Oxide Yellow	77492	51274-00	257-098-5	Yellow		Purity criteria as set out in Commission Directive	

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							95/45/ EC (E 172)	
137	Iron Oxide Black	77499		235-442-	Black		Purity criteria as set out in Commission Directive 95/45/ EC (E 172)	
138	Ferric Ammonium Ferrocyanide	77510			Blue		free from cyanide ions	
139	Magnesium carbonate	77713			White			
140	Ammonium manganese(3+) diphosphate	77742			Violet			
141	Trimanganese bis (orthophosphate)	77745			Red			
142	Silver	77820		231-131-	White		Purity criteria as set out in Commission Directive 95/45/ EC (E 174)	
143	Titanium dioxide ^a	77891		236-675-	White		Purity criteria as set out in Commission Directive 95/45/ EC (E 171)	
[^{F3} 144	Zinc oxide ^b	77947	1314-13-	215-222-	White		Not to be used in applications]

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								that may lead to exposure of the end-user's lungs by inhalation.	
145	Riboflavin	Lactoflavin		201-507-2	2014-988-6			Purity criteria as set out in Commission Directive 95/45/EC (E 101)	
146	Caramel	Caramel		232-435-9	Brown			Purity criteria as set out in Commission Directive 95/45/EC (E 150a-d)	
147	Paprika extract, Capsanthin, capsorubin	Capsanthin, capsorubin		207-364-0	2007-425-2			Purity criteria as set out in Commission Directive 95/45/EC (E 160c)	
148	Beetroot red	Beetroot Red	7659-95-2	231-628-1	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 162)	

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149	Anthocyanins (Cyanidin, Peonidin, Malvidin, Delphinidin, Petunidin, Pelargonidin)	Anthocyanins (Cyanidin, Peonidin, Malvidin, Delphinidin, Petunidin, Pelargonidin)	528-58-5 134-01-0 528-53-0 643-84-5 134-04-3	208-438-6 205-125-6 211-403-8 208-437-0 — 205-127-7	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 163)	
150	Aluminium zinc, magnesium and calcium stearates	Aluminium stearate Zinc stearate Magnesium stearate Calcium stearate	7047-84-2 557-05-1 557-04-0 216-472-8	230-325-5 1209-151-9 209-150-3 216-472-8	White				
151	Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-3-methyl-6-(1-methylethyl)-, S,S-dioxide	Bromothymol blue	76619-5	200-971-1	Blue	Rinse-off products			
152	Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-3-methyl-, S,S-dioxide	Bromocresol green	76610-8	200-972-8	Green	Rinse-off products			
153	Sodium 4-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-3-hydroxynaphthalene-1-sulphonate	Acid red 195	12220-24-5	—	Red	Not to be used in products applied on mucous membranes			

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Textual Amendments

- F1** Inserted by [Commission Regulation \(EU\) 2017/1413 of 3 August 2017 amending Annex IV to Regulation \(EC\) No 1223/2009 of the European Parliament and of the Council on cosmetic products \(Text with EEA relevance\)](#).
- F2** Substituted by [Commission Regulation \(EU\) 2016/1120 of 11 July 2016 amending Annex IV to Regulation \(EC\) No 1223/2009 of the European Parliament and of the Council on cosmetic products \(Text with EEA relevance\)](#).
- F3** Substituted by [Commission Regulation \(EU\) 2017/1413 of 3 August 2017 amending Annex IV to Regulation \(EC\) No 1223/2009 of the European Parliament and of the Council on cosmetic products \(Text with EEA relevance\)](#).

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 IV.