

## ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS

### Preamble

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

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		
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			

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

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 %	
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-	12490			Red			

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	hydroxynaphthalene-2-carboxamide							
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			
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			<p><b>Purity Criteria (E122)</b>            Water insoluble matter: Not more than 0,2 %            Subsidiary colouring matters: Not more than 2,0 %            Organic compounds other than colouring matters: (4-aminonaphthalene-1-sulfonic acid and 4-hydroxynaphthalene-1-sulfonic acid):            Total not more than 0,5 %            Unulfonated primary aromatic amines: Not more than 0,01 % (calculated as aniline)            Ether extractable matter: Not more than 0,2 % under neutral conditions            Arsenic: Not more than 3 mg/kg            Lead: Not more than 10 mg/kg            Mercury: Not more than 1 mg/kg            Cadmium: Not more than 1 mg/kg</p>

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Heavy metals: (as Pb) Not more than 40 mg/kg
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			
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]naphthalene-	15630			Red		3 %	

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	nesulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments							
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 and pigments	15850		226-109-5	Red			<b>Purity Criteria (E180)</b> Subsidiary colouring matters: Not more than 0,5 % Organic compounds other than colouring matters (2-Amino-5-methylbenzenesulfonic acid, calcium salt): Not more than 0,2 % 3-hydroxy-2-naphthalenecarboxylic acid, calcium salt: Not more than 0,4 % Unsulfonated primary aromatic amines: Not more than 0,01 % (expressed as aniline) Ether extractable matter From a solution of pH 7: not more than 0,2 % Arsenic: Not more than 3 mg/kg Lead: Not more than 10 mg/kg Mercury: Not more than 1 mg/kg Cadmium: Not more than 1 mg/kg Heavy metals (as Pb): Not more than 40 mg/kg
28	Disodium 4-[(5-chloro-4-methyl-2-sulphonatophenyl)azo]-3-hydroxy-2-naphthoate and its insoluble barium,	15865			Red			

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	strontium and zirconium lakes, salts and pigments							
29	Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate	15880			Red			
30	Disodium 6-hydroxy-5-[(3-sulphonatophenyl)azo]naphthalene-2-sulphonate	15980			Orange			
31	Disodium 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments	15985		220-491-7	Yellow			<p><b>Purity Criteria (E110)</b>            Water insoluble matter: Not more than 0,2 %            Subsidiary colouring matters: Not more than 5 %            Organic compounds other than colouring matters:            4-aminobenzene-1-sulfonic acid            3-hydroxynaphthalene-2,7-disulfonic acid            6-hydroxynaphthalene-2-sulfonic acid            7-hydroxynaphthalene-1,3-disulfonic acid            Total not more than 0,5 %            4,4_-diazoaminodi(benzene sulfonic acid)            6,6_-oxydi(naphthalene-2-sulfonic acid)            Unulfonated primary aromatic amines: Not more than 0,01 % (calculated as aniline)            Ether extractable matter: Not more than 0,2 % under neutral conditions            Arsenic Not more than 3 mg/kg            Lead Not more than 10 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg</p>

ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS

Preamble

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Heavy metals (as Pb) Not more than 40 mg/kg
32	Disodium 6-hydroxy-5-[(2-methoxy-4-sulphonato-m-tolyl)azo]naphthalene-2-sulphonate	16035		247-368-0	Red			<b>Purity Criteria (E129)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Not more than 3,0 % Organic compounds other than colouring matters: 6-hydroxy-2-naphthalene sulfonic acid, sodium salt Not more than 0,3 % 4-amino-5-methoxy-2-methylbenzene sulfonic acid Not more than 0,2 % 6,6-oxybis (2-naphthalene sulfonic acid) disodium salt Not more than 1,0 % Unulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline) Ether extractable matter From a solution of pH 7, not more than 0,2 % Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i
33	Trisodium 3-hydroxy-4-[(4'-sulphonatonaphthyl)azo]naphthalene-2,7-disulphonate	16185		213-022-2	Red			<p><b>Purity Criteria (E123)</b></p> <p>Water insoluble matter Not more than 0,2 %</p> <p>Subsidiary colouring matters Not more than 3,0 %</p> <p>Organic compounds other than colouring matters:</p> <p>4-aminonaphthalene-1-sulfonic acid</p> <p>3-hydroxynaphthalene-2,7-disulfonic acid</p> <p>6-hydroxynaphthalene-2-sulfonic acid Total not more than 0,5 %</p> <p>7-hydroxynaphthalene-1,3-disulfonic acid</p> <p>7-hydroxynaphthalene-1,3,6-trisulfonic acid</p> <p>Unsulphonated primary aromatic amines Not more than 0,01 % (calculated as aniline)</p> <p>Ether extractable matter Not more than 0,2 % under neutral conditions</p> <p>Arsenic Not more than 3 mg/kg</p> <p>Lead Not more than 10 mg/kg</p> <p>Mercury Not more than 1 mg/kg</p> <p>Cadmium Not more than 1 mg/kg</p> <p>Heavy metals (as Pb) Not more than 40 mg/kg</p>
34	Disodium 7-hydroxy-8-(phenylazo)naphthalene-1,3-disulphonate	16230			Orange	Not to be used in products applied on mucous membranes		



**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

35	Trisodium 1-(1-naphthylazo)-2-hydroxynaphthalene-4',6,8-trisulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments	16255		220-036-2	Red			<p><b>Purity Criteria (E124)</b>            Water insoluble matter Not more than 0,2 %            Subsidiary colouring matters Not more than 1,0 %            Organic compounds other than colouring matters:            4-aminonaphthalene-1-sulfonic acid            7-hydroxynaphthalene-1,3-disulfonic acid            3-hydroxynaphthalene-2,7-disulfonic acid Total not more than 0,5 %            6-hydroxynaphthalene-2-sulfonic acid            7-hydroxynaphthalene-1,3,6-trisulfonic acid            Unsulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline)            Ether extractable matter Not more than 0,2 % under neutral conditions            Arsenic Not more than 3 mg/kg            Lead Not more than 10 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg            Heavy metals (as Pb) Not more than 40 mg/kg</p>
36	Tetrasodium 7-hydroxy-8-[(4-sulphonato-1-naphthyl)azo]naphthalene-1,3,6-trisulphonate	16290			Red			
37	Disodium 5-amino-4-hydroxy-3-(phenylazo)naphthalene-2,7-disulphonate	17200			Red			

ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS

Preamble

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	and its insoluble barium, strontium and zirconium lakes, salts and pigments							
38	Disodium 5-acetylamino-4-hydroxy-3-(phenylazo)naphthalene-2,7-disulphonate	18050		223-098-9	Red	Not to be used in products applied on mucous membranes		<b>Purity Criteria (E128)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Not more than 2,0 % Organic compounds other than colouring matters: 5-acetamido-4-hydroxynaphthalene-2,7-disulfonic acid 5-amino-4-hydroxynaphthalene-2,7-disulfonic acid Total not more than 0,5 % Unulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline) Ether extractable matter Not more than 0,2 % under neutral conditions Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
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 bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	18690			Yellow	Rinse-off products		

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

41	Disodium hydrogen bis[5-chloro-3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxybenzenesulphonato(3-)]chromate(3-)	18736			Red	Rinse-off products		
42	Sodium 4-(3-hydroxy-5-methyl-4-(phenylazo)pyrazol-2-yl)benzenesulphonate	18820			Yellow	Rinse-off products		
43	Disodium 2,5-dichloro-4-(5-hydroxy-3-methyl-4-((sulphophenyl)azo)pyrazol-1-yl)benzenesulphonate	18965			Yellow			
44	Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-((4-sulphophenyl)azo)pyrazole-3-carboxylate and its insoluble barium, strontium and zirconium lakes, salts and pigments	19140		217-699-5	Yellow			<p><b>Purity Criteria (E102)</b></p> <p>Water insoluble matter Not more than 0,2 %</p> <p>Subsidiary colouring matters Not more than 1,0 %</p> <p>Organic compounds other than colouring matters:</p> <p>4-hydrazinobenzene sulfonic acid</p> <p>4-aminobenzene-1-sulfonic acid</p> <p>5-oxo-1-(4-sulfophenyl)-2-pyrazoline-3-carboxylic acid</p> <p>Total not more than 0,5 %</p> <p>4,4_-diazaminodi(benzene sulfonic acid)</p> <p>Tetrahydroxysuccinic acid</p> <p>Unulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline)</p> <p>Ether extractable matter Not more than 0,2 % under neutral conditions</p>

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
45	N,N'-(3,3'-Dimethyl[1,1'-biphenyl]-4,4'-diyl)bis[2-[(2,4-dichlorophenyl)azo]-3-oxobutyramide]	20040			Yellow	Rinse-off products		Maximum 3,3'- dimethylbenzidine concentration 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]	24790			Red	Rinse-off products		

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	phenyl]azo]naphthalene-2-sulphonate							
51	1-(4-(Phenylazo)phenylazo)-2-naphthol	26100			Red	Not to be used in products applied on mucous membranes		<b>Purity criteria:</b> 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		219-746-5	Black			<b>Purity Criteria (E151)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Not more than 10 % (expressed on the dye content) Organic compounds other than colouring matters: 4-acetamido-5-hydroxynaphthalene-1,7-disulfonic acid 4-amino-5-hydroxynaphthalene-1,7-disulfonic acid Total not more than 0,8 % 8-aminonaphthalene-2-sulfonic acid 4,4_-diazoaminodi-(benzenesulfonic acid) Unsulphonated primary aromatic amines Not more than 0,01 % (calculated as aniline)

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Ether extractable matter Not more than 0,2 % under neutral conditions Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
54	Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-nitro-, disodium salt, reaction products with 4-[(4-aminophenyl)azo] benzenesulfonic acid, sodium salts	40215			Orange	Rinse-off products		
55	beta Carotene	40800		230-636-6	Orange			<b>Purity Criteria (E160a)</b> Solvent residues Acetone Methyl ethyl ketone Methanol Not more than 50 mg/kg, Propan-2-ol singly or in combination Hexane Ethanol Dichloromethane Not more than 10 mg/kg Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

56	8'-apo-.beta.-Caroten-8'-al	40820			Orange			<p><b>Purity Criteria (E160a)</b>            Sulfated ash Not more than 0,1 %            Subsidiary colouring matters Carotenoids other than <math>\beta</math>-apo-8_-carotenal:            not more than 3,0 % of total colouring matters            Arsenic Not more than 3 mg/kg            Lead Not more than 10 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg            Heavy metals (as Pb) Not more than 10 mg/kg</p>
57	Ethyl 8'-apo-.beta.-caroten-8'-oate	40825		214-173-7	Orange			<p><b>Purity Criteria (E160f)</b>            Sulfated ash Not more than 0,1 %            Subsidiary colouring matters Carotenoids other than <math>\beta</math>-apo-8_-carotenoic acid ethyl ester:            not more than 3,0 % of total colouring matters            Not more than 3,0 % der Farbstoffe insgesamt            Arsenic Not more than 3 mg/kg            Lead Not more than 10 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg            Heavy metals (as Pb) Not more than 10 mg/kg</p>

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

58	Canthaxanthin	40850		208-187-2	Orange			<b>Purity Criteria (E161g)</b> Sulfated ash Not more than 0,1 % Subsidiary colouring matters Carotenoids other than canthaxanthin: not more than 5,0 % of total colouring matters Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
59	Ammonium, (4-(alpha-(p-(diethylamino)phenyl)-2,4-disulfobenzylidene)-2,5-cyclohexadien-1-ylidene)diethyl-, hydroxide, monosodium salt	42045			Blue	Not to be used in products applied on mucous membranes		
60	Ethanaminium, N-(4-((4-(diethylamino)phenyl)(5-hydroxy-2,4-disulfophenyl)methylene)-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	42051		222-573-8	Blue			<b>Purity Criteria (E131)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Not more than 2,0 % Organic compounds other than colouring matters: 3-hydroxy benzaldehyde 3-hydroxy benzoic acid 3-hydroxy-4-sulfobenzoic acid Total not more than 0,5 % N,N-diethylamino benzene sulfonic acid Leuco base Not more than 4,0 %



**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Unulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline) Ether extractable matter From a solution of pH 5 not more than 0,2 % Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
61	Benzene-methanaminium, N-ethyl-N-(4-((4-(ethyl((3-sulfophenyl)methyl)amino)phenyl)(4-hydroxy-2-sulfophenyl)methylene)-2,5-cyclohexadien-1-ylidene)-3-sulfo-, hydroxide, inner salt, disodium salt	42053			Green			
62	Hydrogen (benzyl)[4-[[4-(benzylethylamino)phenyl](2,4-disulphonatophenyl)methylene]cyclohexa-2,5-dien-1-ylidene](ethyl)ammonium, sodium salt	42080			Blue	Rinse-off products		
63	Benzene-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	42090		223-339-8	Blue			<b>Purity Criteria (E133)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Not more than 6,0 % Organic compounds other than colouring matters: Sum of 2-, 3- and 4-formyl benzene sulfonic acids Not more

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								than 1,5 % 3-((ethyl)(4-sulfophenyl) amino) methyl benzene sulfonic acid Not more than 0,3 % Leuco base Not more than 5,0 % Unulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline) Ether extractable matter Not more than 0,2 % at pH 7 Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
64	Hydrogen [4-[(2-chlorophenyl)[4-[ethyl (3-sulphonatobenzyl)amino]phenyl] methylene]cyclohexa-2,5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt	42100			Green	Rinse-off products		
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-	42510			Violet	Not to be used in		

ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS

Preamble

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	dienylidene)methyl)-2-methylaniline hydrochloride					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)(3-sulphonatobenzyl)ammonium, sodium salt	42735			Blue	Not to be used in products applied on mucous membranes		
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			<b>Purity Criteria (E142)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Not more than 1,0 % Organic compounds other than colouring matters: 4,4_-bis(dimethylamino)-benzhydryl alcohol Not more than 0,1% 4,4_-bis(dimethylamino)-benzophenone Not more than 0,1 %

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								3-hydroxynaphthalene-2,7-disulfonic acid Not more than 0,2 % Leuco base Not more than 5,0 % Unsulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline) Ether extractable matter Not more than 0,2 % under neutral conditions Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
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-methylanilino)-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		
74	Disodium 2-(3-oxo-6-oxidoxanthen-9-yl)benzoate	45350			Yellow		6 %	
75	4',5'-Dibromo-3',6'-	45370			Orange			Not more than 1 % 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one and its insoluble barium, strontium and zirconium lakes, salts and pigments							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-y1) 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'-[9H]xanthene]-3-one	45396			Orange		1%, when used in lip products	Only in free acid form, when used in lip products
78	Dipotassium 3,6-dichloro-2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate	45405			Red	Not to be used in eye products		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
79	3,4,5,6-Tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-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 xanthen-9-yl) benzoic acid and 2 % 2-(bromo-6-hydroxy- 3-oxo-3H-xanthen-9- yl) benzoic acid
80	Disodium 2-(2,4,5,7-tetraiodo-6-oxido-3-oxoxanthen-9-yl) benzoate and its insoluble barium, strontium and zirconium lakes, salts and pigments	45430		240-474-8	Red			<b>Purity Criteria (E127)</b> Inorganic iodides calculated as sodium iodide Not more than 0,1 % Water insoluble matter Not more than 0,2 % Subsidiary colouring matters (except fluorescein) Not more than 4,0 %

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Fluorescein Not more than 20 mg/kg Organic compounds other than colouring matters: Tri-iodoresorcinol Not more than 0,2 % 2-(2,4-dihydroxy-3,5-diodobenzoyl) benzoic acid Not more than 0,2 % Ether extractable matter From a solution of pH from 7 through 8, not more than 0,2 % Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg Aluminium Lakes The hydrochloric acid insoluble matter method is not applicable. It is replaced by a sodium hydroxide insoluble matter, at not more than 0,5 %, for this colour only.
--	--	--	--	--	--	--	--	--

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

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-quinolyl)-, sulfonated, sodium salts	47005		305-897-5	Yellow			<b>Purity Criteria (E104)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Not more than 4,0 % Organic compounds other than colouring matters: 2-methylquinoline 2-methylquinoline-sulfonic acid Phthalic acid Total not more than 0,5 % 2,6-dimethyl quinolone 2,6-dimethyl quinoline sulfonic acid 2-(2-quinolyl)indan-1,3-dione Not more than 4 mg/kg Unsulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline) Ether extractable matter Not more than 0,2 % under neutral conditions Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Heavy metals (as Pb) Not more than 40 mg/kg
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		
85	8,18-Dichloro-5,15-diethyl-5,15-dihydroindolo[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			



**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

92	Disodium 2,2'-(9,10-dioxoanthracene-1,4-diyldiimino)bis(5-methylsulphonate)	61570			Green			
93	Sodium 3,3'-(9,10-dioxoanthracene-1,4-diyldiimino)bis(2,4,6-trimethylbenzenesulphonate)	61585			Blue	Rinse-off products		
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	Bisbenzimidazo[2,1-b:2',1'-i]benzo[lmn][3,8]phenanthroline-8,17-dione	71105			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			<b>Purity Criteria (E132)</b> Water insoluble matter Not more than 0,2 % Subsidiary colouring matters Excluding disodium 3,3'-dioxo-2,2'-bi-indolylidene-5,7'-disulfonate: not more than 1,0 %

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Organic compounds other than colouring matters: Isatin-5-sulfonic acid 5-sulfoanthranilic acid Total not more than 0,5 % Anthranilic acid Un sulfonated primary aromatic amines Not more than 0,01 % (calculated as aniline) Ether extractable matter Not more than 0,2 % under neutral conditions Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
100	6-Chloro-2-(6-chloro-4-methyl-3-oxobenzo[b]thien-2(3H)-ylidene)-4-methylbenzo[b]thiophene-3(2H)-one	73360			Red			
101	5-Chloro-2-(5-chloro-7-methyl-3-oxobenzo[b]thien-2(3H)-ylidene)-7-methylbenzo[b]thiophene-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-Phthalocyanine	74100			Blue	Rinse-off products		
105	29H,31H-Phthalocyaninato(2-)-	74160			Blue			

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	N29,N30,N31,N32 copper							
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- $\psi$ , $\psi$ -Carotenedioic acid	75100			Yellow			
109	Annatto	75120		215-735-4/ 289-561-2/ 230-248-7	Orange			<b>Purity Criteria (E160b)</b> Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
110	Lycopene	75125		—	Yellow			<b>Purity Criteria (E160d)</b> Solvent residues Ethyl acetate Methanol Ethanol Not more than 50 mg/kg, singly Acetone or in combination Hexane Propan-2-ol Dichloromethane: Not more than 10 mg/kg Sulfated ash Not more than 0,1 % Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
111	CI Food Orange 5	75130		214-171-6	Orange			<b>Purity criteria (E 160a)</b> Solvent residues, Acetone, Methyl ethyl ketone, Methanol: Not more than 50 mg/kg, Propan-2-ol singly or in combination, Hexane, Ethanol, Dichloromethane: Not more than 10 mg/kg Arsenic: Not more than 3 mg/kg Lead: Not more than 10 mg/kg Mercury: Not more than 1 mg/kg Cadmium: Not more than 1 mg/kg Heavy metals (as Pb): Not more than 40 mg/kg
112	(3R)-beta-4-Caroten-3-ol	75135			Yellow			
113	2-Amino-1,7-dihydro-6H-purin-6-one	75170			White			
114	Curcumins	75300		207-280-5	Yellow			<b>Purity Criteria (E100)</b> Solvent residues Acetone Methyl ethyl ketone Methanol Not more than 50 mg/kg, Propan-2-ol singly or in combination Hexane Ethanol Dichloromethane Not more than 10 mg/kg Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
115	Carmines	75470		215-680-6/ 215-023-3/ 215-724-4	Red			<b>Purity Criteria (E120)</b> Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
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		215-800-7/ 207-536-6/ 208-272-4/ 287-483-3/ 239-830-5/ 246-020-5	Green			<b>Purity Criteria (E140 , E141)</b> Solvent residues Acetone Methyl ethyl ketone Methanol Not more than 50 mg/kg, Ethanol singly or in combination Propan-2-ol Hexane Dichloromethane: not more than 10 mg/kg Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Copper ions Not more than 200 mg/kg Total copper Not more than 8,0 % of the total copper phaeophytins

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

117	Aluminium	77000		231-072-3	White			<b>Purity Criteria (E173)</b> Loss on drying Not more than 0,5 % (105 °C, to constant weight) Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
118	Aluminium hydroxide sulphate	77002			White			
119	Natural hydrated aluminium silicate, Al <sub>2</sub> O <sub>3</sub> .2SiO <sub>2</sub> .2H <sub>2</sub> O, containing calcium, magnesium or iron carbonates, ferric hydroxide, quartz-sand, mica, etc. as impurities	77004			White			
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		207-439-9/ 215-279-6	White			<b>Purity Criteria (E170)</b> Loss on drying Not more than 2,0 % (200 °C, 4 hours) Acid-insoluble substances Not more than 0,2 % Magnesium and alkali salts Not more than 1,5 %

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Fluoride Not more than 50 mg/kg Antimony (as Sb) Copper (as Cu) Chromium (as Cr) Not more than 100 mg/kg, singly or in combination Zinc (as Zn) Barium (as Ba) Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Cadmium Not more than 1 mg/kg
125	Calcium sulfate	77231			White			
126	Carbon Black	77266	1333-86-4, 7440-44-0	215-609-9, 231-153-3, 931-328-0, 931-334-3				<b>Purity Criteria (E153)</b> Purity > 97 %, with the following impurity profile: Ash content ≤ 0,15 %, total sulphur ≤ 0,65 %, total PAH ≤ 500 ppb and benzo(a)pyrene ≤ 5 ppb, dibenz(a,h)anthracene ≤ 5 ppb, total As ≤ 3 ppm, total Pb ≤ 10 ppm, total Hg ≤ 1 ppm.
126a	Carbon black (Nano)	77266	1333-86-4, 7440-44-0	215-609-9, 231-153-3, 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: <b>Purity Criteria (E153)</b> Purity > 97 %, with the following impurity profile: Ash content ≤ 0,15 %, total sulphur ≤ 0,65 %, total PAH ≤ 500 ppb and benzo(a)pyrene ≤ 5 ppb, dibenz(a,h)anthracene ≤ 5 ppb, total As ≤ 3 ppm, total Pb ≤ 10 ppm, total Hg ≤ 1 ppm. Primary particle size ≥ 20 nm.

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

127	Charcoal, bone. A fine black powder obtained by burning animal bones in a closed container. It consists primarily of calcium phosphate and carbon	77267			Black			
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			<b>Purity Criteria (E175)</b> Silver Not more than 7,0 % Copper Not more than 4,0 % After complete dissolution
134	Iron oxide	77489			Orange			
135	Iron Oxide Red	77491		215-168-2	Red			<b>Purity Criteria (E172)</b> Water soluble matter: Not more than 1,0 % Arsenic: Not more than 5 mg/kg Barium: Not more than 50 mg/kg Cadmium: Not more than 5 mg/kg Chromium: Not more than 100 mg/kg



**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Copper: Not more than 50 mg/kg Lead: Not more than 20 mg/kg Mercury: Not more than 1 mg/kg Nickel: Not more than 200 mg/kg Zinc: Not more than 100 mg/kg  All of the above being the value by total dissolution.
136	Iron Oxide Yellow	77492	51274-00-1	257-098-5	Yellow			<b>Purity Criteria (E172)</b> Water soluble matter: Not more than 1,0 % Arsenic: Not more than 5 mg/kg Barium: Not more than 50 mg/kg Cadmium: Not more than 5 mg/kg Chromium: Not more than 100 mg/kg Copper: Not more than 50 mg/kg Lead: Not more than 20 mg/kg Mercury: Not more than 1 mg/kg Nickel: Not more than 200 mg/kg Zinc: Not more than 100 mg/kg  All of the above being the value by total dissolution.
137	Iron Oxide Black	77499		235-442-5	Black			<b>Purity Criteria (E172)</b> Water soluble matter Not more than 1,0 % Arsenic Not more than 5 mg/kg Barium Not more than 50 mg/kg

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								Cadmium Not more than 5 mg/kg Chromium Not more than 100 mg/kg By total dissolution Copper Not more than 50 mg/kg Lead Not more than 20 mg/kg Mercury Not more than 1 mg/kg Nickel Not more than 200 mg/kg Zinc Not more than 100 mg/kg
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		231-131-3	White			<b>Purity Criteria</b> Content not less than 99.5% Ag
143	Titanium dioxide <sup>(1)</sup>	77891		236-675-5	White			Purity criteria (E 171) — Titanium dioxide in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm, to be used in compliance with Annex III, No [321]
144	Zinc oxide <sup>(2)</sup>	77947			White			Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

145	Riboflavin	Lactoflavin		201-507-1/ 204-988-6	Yellow			<p><b>Purity Criteria (E101)</b>            Loss on drying Not more than 1,5 % after drying at 105 °C for 4 hrs            Sulfated ash Not more than 0,1 %            Primary aromatic amines Not more than 100 mg/kg (calculated as aniline)            Arsenic Not more than 3 mg/kg            Lead Not more than 10 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg            Heavy metals (as Pb) Not more than 40 mg/kg</p>
146	Caramel	Caramel		232-435-9	Brown			<p><b>Purity Criteria for (E150a) Plain Caramel</b>            Colour bound by DEAE cellulose Not more than 50 %            Colour bound by phosphoryl cellulose Not more than 50 %            Colour intensity(1) 0,01—0,12            Total nitrogen Not more than 0,1 %            Total sulphur Not more than 0,2 %            Arsenic Not more than 1 mg/kg            Lead Not more than 2 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg            Heavy metals (as Pb) Not more than 25 mg/kg</p> <p><b>Purity Criteria for (E150b) Caustic Sulphite Caramel</b>            Colour bound by DEAE cellulose More than 50 %            Colour intensity(1) 0,05—0,13            Total nitrogen Not more than 0,3 %(2)</p>

ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS

Preamble

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								<p>Sulphur dioxide Not more than 0,2 %(2)            Total sulphur 0,3—3,5 %(2)            Sulphur bound by DEAE cellulose More than 40 %            Absorbance ratio of colour bound by DEAE cellulose 19—34            Absorbance ratio (A 280/560)            Greater than 50            Arsenic Not more than 1 mg/kg            Lead Not more than 2 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg            Heavy metals (as Pb) Not more than 25 mg/kg</p> <p><b>Purity Criteria of (E150c) Ammonia Caramel</b>            Colour bound by DEAE cellulose Not more than 50 %            Colour bound by phosphoryl cellulose More than 50 %            Colour intensity(1) 0,08—0,36            Ammoniacal nitrogen Not more than 0,3 %(2)            4-methylimidazole Not more than 250 mg/kg(2)            2-acetyl-4-tetrahydroxy-butylimidazole Not more than 10 mg/kg(2)            Total sulphur Not more than 0,2 %(2)            Total nitrogen 0,7—3,3 %(2)            Absorbance ratio of colour bound by phosphoryl cellulose 13—35            Arsenic Not more than 1 mg/kg            Lead Not more than 2 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg</p>
--	--	--	--	--	--	--	--	--

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

								<p>Heavy metals (as Pb) Not more than 25 mg/kg</p> <p><b>Purity of (E150d) Sulphite Ammonia Caramel</b>            Colour bound by DEAE cellulose More than 50 %            Colour intensity(1) 0,10—0,60            Ammoniacal nitrogen Not more than 0,6 %(2)            Sulphur dioxide Not more than 0,2 %(2)            4-methylimidazole Not more than 250 mg/kg(2)            Total nitrogen 0,3—1,7 %(2)            Total sulphur 0,8—2,5 %(2)            Nitrogen/sulphur ratio of alcohol precipitate 0,7—2,7            Absorbance ratio of alcohol precipitate (3) 8—14            Absorbance ratio (A <b>280/560</b>) Not more than 50            Arsenic Not more than 1 mg/kg            Lead Not more than 2 mg/kg            Mercury Not more than 1 mg/kg            Cadmium Not more than 1 mg/kg            Heavy metals (as Pb) Not more than 25 mg/kg</p> <p>In this entry:            (1) Colour intensity is defined as the absorbance of a 0,1 % (w/v) solution of caramel colour solids in water in a 1 cm cell at 610 nm.            (2) Expressed on equivalent colour basis i.e. is expressed in terms of a product having a colour intensity of 0,1 absorbance units.            (3) Absorbance ratio of alcohol precipitate is defined as the absorbance of the precipitate at 280 nm divided by the absorbance at 560 nm (1 cm cell).</p>
--	--	--	--	--	--	--	--	---

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i
147	Paprika extract, Capsanthin, capsorubin	Capsanthin, capsorubin		207-364-1/ 207-425-2	Orange			<b>Purity Criteria (E160c)</b> Solvent residues Ethyl acetate Methanol Ethanol Not more than 50 mg/kg, Acetone singly or in combination Hexane Dichloromethane: not more than 10 mg/kg Capsaicin Not more than 250 mg/kg Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
148	Beetroot red	Beetroot Red	7659-95-2	231-628-5	Red			<b>Purity Criteria (E162)</b> Nitrate Not more than 2 g nitrate anion/g of red colour (as calculated from assay). Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
149	Anthocyanins  (Cyanidin,	Anthocyanins	528-58-5  134-01-0	208-438-6  205-125-6	Red			<b>Purity Criteria (E163)</b> Solvent residues Methanol Ethanol Not more than 50 mg/kg

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

	Peonidin Malvidin Delphinidin Petunidin Pelargonidin)		528-53-0 643-84-5 134-04-3	211-403-8 208-437-0 — 205-127-7				Solvent residues Not more than 1 000 mg/kg per percent pigment Arsenic Not more than 3 mg/kg Lead Not more than 10 mg/kg Mercury Not more than 1 mg/kg Cadmium Not more than 1 mg/kg Heavy metals (as Pb) Not more than 40 mg/kg
150	Aluminium, zinc, magnesium and calcium stearates	Aluminum stearate Zinc stearate Magnesium stearate Calcium stearate	7047-84-9 557-05-1 557-04-0 216-472-8	230-325-5 209-151-9 209-150-3 216-472-8	White			
151	Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-3-methyl-6-(1-methylethyl)-,S,S-dioxide	Bromothymol blue	76-59-5	200-971-2	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	76-60-8	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		

**ANNEX IV – LIST OF COLOURING AGENTS ALLOWED FOR USE IN COSMETIC PRODUCTS**

**Preamble**

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

Reference Number	Chemical Name	Colour Index (CI) Number or Name in Common Ingredients Glossary	CAS No.	EC No	Colour	Product type/Body Parts	Maximum authorised concentration in ready use preparation	Other
a	b	c	d	e	f	g	h	i

(1) For use as a UV-Filter, see Annex VI, No. 27.

(2) For use as a UV-Filter see Annex VI, No. 30.