

भारतीय मानक
Indian Standard

IS 4707 (Part 1) : 2020

**सौंदर्य प्रसाधन कच्ची सामग्री और सहायक
सामग्री का वर्गीकरण**

भाग 1 रंगदायी पदार्थ

(चौथा पुनरीक्षण)

**Classification For Cosmetic Raw
Materials and Adjuncts**

Part 1 Colourants

(Fourth Revision)

ICS 71.100.70

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Price Group 8

Cosmetics Sectional Committee, PCD 19

FOREWORD

This Indian Standard (Part 1) (Fourth Revision) was adopted by the Bureau of Indian Standards after the draft finalized by the Cosmetics Sectional Committee had been approved by the Petroleum, Coal and Related Products Division Council.

With the objective of taking effective step in guarding against harmful substances being used in cosmetics, the Committee decided to prepare broad-based classification of raw materials as: (a) 'Generally Recognized as Safe' (GRAS), and (b) 'Generally Not Recognized as Safe' (GNRAS). In view of the large number of raw materials which were likely to be used for different intended purposes in cosmetics formulations, such as dyes and pigments, preservatives, U.V. filters, basic ingredients, adjuncts, etc., it was more convenient and practical to prepare GRAS list for colourants and GNRAS list for raw materials and adjuncts to serve the intended purpose of safeguarding the interest of the consumer and simultaneously leaving enough scope for innovative formulations. Towards this purpose, this standard (Part 1) was originally published in 1968 for GRAS list for dyes, colour and pigments. Later, in 1973, the (Part 2) was published for GNRAS list of raw materials and adjuncts other than dyes, colour and pigments.

This standard (Part 1) was subsequently revised in 1988, 2001 and 2017. In first revision, only those colours which were in vogue in Indian cosmetic industry and had either EEC (European Economic Community), USFDA (United States Food & Drug Administration) or any international approval were incorporate. In second revision, list of dyes, pigments and colours were updated in accordance with the EEC Directive 76/768/EEC of year 2000. A restricted number of colours which were in vogue in Indian industry had been taken from the directive keeping in mind that a wide list of colour would be difficult to monitor. Moreover, to make the standard user friendly, the list of colouring agents permitted for use in the cosmetic products was prepared as per their Colour Index Number in the ascending order along with colour field of application and other limitations and requirements for use. In third revision, the list of colourants was further updated in accordance with the EEC Directive 76/768/EEC of year 2012. In addition, the title was modified as colourants, in place of dyes, colours and pigments to align it with the definitions of these terms as given under IS 15467 : 2004 'Glossary of terms - Cosmetics'.

In this revision, the list of colourants has been revised to include chemical names, CAS numbers and EC numbers of the colourants. The list of colourants is also updated in accordance with the EEC Directive 1223/2009 of year 2019. The definition of colourants has also been revised.

The intent of this standard is not to prescribe any specific composition of finished cosmetic products. The manufacturers are free to develop any composition through innovations and keeping pace with the technological advancements, provided that the provisions of this standard are complied with.

At present, there is no International Standard published by International Organization for Standardization (ISO) on the subject.

Indian Standard
**CLASSIFICATION FOR COSMETIC RAW
MATERIALS AND ADJUNCTS**

PART 1 COLOURANTS

(Fourth Revision)

1 SCOPE

This standard (Part 1) lists the colourants which are generally recognized as safe (GRAS) for use in cosmetics. The list also includes colourants which are intended for use in toiletry preparations.

2 REFERENCE

IS 4707 (Part 2) : 2017 'Classification for cosmetic raw materials and adjuncts: Part 2 List of raw materials generally not recognized as safe for use in cosmetics (*fourth revision*)' is a necessary adjunct to this standard.

3 TERMINOLOGY

For the purpose of this standard, the following definitions shall apply:

3.1 GRAS List — It shall include ingredients which are generally recognized as safe and which when used in concentrations conventionally adopted or within

the limits as specified (wherever applicable) shall be permissible in cosmetics.

3.2 Colourants — Substances which are exclusively or mainly intended to colour the cosmetic product, the body as a whole or certain parts thereof, by absorption or reflection of visible light; in addition, precursors of oxidative hair colorants shall be deemed colorants.

4 LIST OF COLOURANTS ALLOWED FOR USE IN COSMETIC PRODUCTS

4.1 The GRAS list of colourants is given in Table 1.

NOTE

1 Lakes or salts of these colorants using substances not prohibited under Annex A of IS 4707 (Part 2) or not excluded under Annex A from the scope of this standard are equally allowed.

2 No colorant is listed in this standard which is provisionally allowed for use in cosmetic products.

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Table 1 GRAS LIST OF COLORANTS
(Clause 4.1)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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			
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 percent	
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		

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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	Sodium 2-amino-5-[(4-sulphonatophenyl)azo] benzenesulphonate	13015			Yellow			
17	Sodium 4-(2,4-dihydroxyphenylazo) benzenesulphonate	14270			Orange			
18	Sodium 3-[(2,4-dimethyl-5-sulphonatophenyl)azo]-4-hydroxynaphthalene-1-sulphonate	14700			Red			
19	Sodium 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	Sodium 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		

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Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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] naphthalenesulphonate and its insoluble barium, strontium and zirconium lakes, salts and pigments	15630			Red		3 percent	
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			Purity criteria as set out in Commission Directive 95/45/EC (E 180)
28	Disodium 4-[(5-chloro-4-methyl-2-sulphonatophenyl)azo]-3-hydroxy-2-naphthoate and its insoluble barium, strontium and zirconium lakes, salts and pigments	15865			Red			
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			Purity criteria as set out in Commission Directive 95/45/EC (E 110)

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
32	Disodium 6-hydroxy-5-[(2-methoxy-4-sulphonato-m-tolyl)azo]naphthalene-2-sulphonate	16035		247-368-0	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		213-022-2	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		220-036-2	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 124)
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 and its insoluble barium, strontium and zirconium lakes, salts and pigments	17200			Red			
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		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 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		

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Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
41	Sodium hydrogen bis[5-chloro-3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxybenzenesulphonate(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			Purity criteria as set out in Commission Directive 95/45/EC (E 102)
45	N,N'-(3,3'-Dimethyl[1,1'-biphenyl]-4,4'-diyl)bis[2-[(2,4-dichlorophenyl)azo]-3-oxobutylamide]	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		Maximum 3,3'-dimethylbenzidine concentration in the colouring agent: 5 ppm
47	2,2'-[(3,3'-Dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2,4-dimethylphenyl)-3-oxobutylamide]	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-oxobutylamide]	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		

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
50	Disodium 4,6-dihydroxy-3-[[4-[1-[4-[[1-hydroxy-7-[(phenylsulphonyloxy)-3-sulphonato-2-naphthyl]azo]phenyl]cyclohexyl]phenyl]azo]naphthalene-2-sulphonate	24790			Red	Rinse-off products		
51	1-(4-(Phenylazo)phenylazo)-2-naphthol	26100			Red	Not to be used in products applied on mucous membranes		Purity criteria: aniline ≤ 0.2 percent 2-naphthol ≤ 0.2 percent 4-aminoazobenzene ≤ 0.1 percent 1-(phenylazo)-2-naphthol ≤ 3 percent 1-[2-(phenylazo) phenylazo]-2-naphthalenol ≤ 2 percent
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			Purity criteria as set out in Commission Directive 95/45/EC (E 151)
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			Purity criteria as set out in Commission Directive 95/45/EC (E 160a)
56	8'-apo-beta.-Caroten-8'-al	40820			Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 160e)

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Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
57	Ethyl 8'-apo-beta-caroten-8'-oate	40825		214-173-7	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 160f)
58	Canthaxanthin	40850		208-187-2	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 161g)
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			Purity criteria as set out in Commission Directive 95/45/EC (E 131)
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-((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			Purity criteria as set out in Commission Directive 95/45/EC (E 133)

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
64	Hydrogen [4-[(2-chlorophenyl)[4-[ethyl(3-sulphonatobenzyl)amino]phenyl]methyl]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]methyl]cyclohexa-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-methylaniline 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	5 ppm	
68	Hydrogen [4-[(4-(diethylamino)phenyl)[4-[ethyl[(3-sulphonatobenzyl)amino]-o-tolyl]methyl]cyclohexa-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]methyl]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)xanthylum, sodium salt	45100			Red	Rinse-off products		

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Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
72	Hydrogen 9-(2-carboxylatophenyl)-3-(2-methylamino)-6-(2-methyl-4-sulphoamino)anthranilic acid, monosodium salt	45190			Violet	Rinse-off products		
73	Hydrogen 9-(2,4-disulphonatophenyl)-3,6-bis(ethylamino)-2,7-dimethylanthranilic acid, monosodium salt	45220			Red	Rinse-off products		
74	Disodium 2-(3-oxo-6-oxidoanthran-9-yl) benzoate	45350			Yellow		6 percent	
75	4',5'-Dibromo-3',6'-dihydroxy-3-[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 percent 2-(6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid and 2 percent 2-(bromo-6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid
76	Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoanthran-9-yl)benzoate and its insoluble barium, strontium and zirconium lakes, salts and pigments	45380			Red			Not more than 1 percent 2-(6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid and 2 percent 2-(bromo-6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid
77	3',6'-Dihydroxy-4',5'-dinitrospiro [isobenzofuran-1(3H),9'-[9H]xanthene]-3-one	45396			Orange		1 percent, 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-oxoanthran-9-yl) benzoate	45405			Red	Not to be used in eye products		Not more than 1 percent 2-(6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid and 2 percent 2-(bromo-6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid
79	3,4,5,6-Tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoanthran-9-yl)benzoic acid and its insoluble barium, strontium and zirconium lakes, salts and pigments	45410			Red			Not more than 1 percent 2-(6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid and 2 percent 2-(bromo-6-hydroxy-3-oxo-3H-xanthan-9-yl) benzoic acid

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
80	Sodium 2-(2,4,5,7-tetraiodo-6-oxido-3-oxoxanthene-9-yl)benzoate and its insoluble barium, strontium and zirconium lakes, salts and pigments	45430		240-474-8	Red			Purity criteria as set 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-quinoliny)-, 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		
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		

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Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
91	1,4-bis(p-Tolylamino)anthraquinone	61565			Green			
92	Sodium 2,2'-(9,10-dioxoanthracene-1,4-diyl)imino)bis(5-methylsulphonate)	61570			Green			
93	Sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)imino)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	Sodium 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-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		

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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-)-N29,N30,N31,N32 copper	74160			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-psi,-psi,-Carotenoidic acid	75100			Yellow			Purity criteria as set out in Commission Directive 95/45/EC (E 160b)
109	Annatto	75120		215-735-4/289-561-2/230-248-7	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 160d)
110	Lycopene	75125		—	Yellow			Purity criteria as set out in Commission Directive 95/45/EC (E 160a)
111	CI Food Orange 5	75130		214-171-6	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 100)
112	(3R)-beta-4-Caroten-3-ol	75135			Yellow			Purity criteria as set out in Commission Directive 95/45/EC (E 120)
113	2-Amino-1,7-dihydro-6H-purin-6-one	75170			White			
114	Curcumins	75300		207-280-5	Yellow			
115	Carmines	75470		215-680-6/215-023-3/215-724-4	Red			

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Table 1 (Continued)

SI No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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			Purity criteria as set out in Commission Directive 95/45/EC (E 140, E141)
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, $Al_2O_3 \cdot 2SiO_2 \cdot 2H_2O$, containing calcium, magnesium or iron carbonates, ferric hydroxide, quartz-sand, mica, etc. as impurities	77004			White			
120	Lazurite	77007			Blue			
121	Aluminium silicate coloured with ferric oxide	77015			Red			
122	Mica	77019			White			
123	Barium sulfate	77120			White			
124	Bismuth chloride oxide	77163			White			
125	Calcium carbonate	77220		207-439-9/215-279-6	White			Purity criteria as set out in Commission Directive 95/45/EC (E 170)
126	Calcium sulfate	77231			White			

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
127	Carbon black	77266	1333-86-4, 7440-44-0	215-609-9, 231-153-3, 931-328-0, 931-334-3	Black			Purity > 97 percent, with the following impurity profile: Ash content ≤ 0.15 percent, total sulphur ≤ 0.65 percent, 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.
128	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			
129	Coke black	77268:1			Black			
130	Chromium (III) oxide	77288			Green			free from chromate ion
131	Chromium (III) hydroxide	77289			Green			free from chromate ion
132	Cobalt Aluminum Oxide	77346			Green			
133	Copper	77400			Brown			
134	Gold	77480		231-165-9	Brown			Purity criteria as set out in Commission Directive 95/45/EC (E 175)
135	Iron oxide	77489			Orange			
136	Iron Oxide Red	77491		215-168-2	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 172)
137	Iron Oxide Yellow	77492	51274-00-1	257-098-5	Yellow			Purity criteria as set out in Commission Directive 95/45/EC (E 172)

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Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
138	Iron Oxide Black	77499		235-442-5	Black			Purity criteria as set out in Commission Directive 95/45/EC (E 172)
139	Ferric Ammonium Ferrocyanide	77510			Blue			free from cyanide ions
140	Magnesium carbonate	77713			White			
141	Ammonium manganese(3+) diphosphate	77742			Violet			
142	Trimanganese bis (orthophosphate)	77745			Red			
143	Silver	77820		231-131-3	White			Purity criteria as set out in Commission Directive 95/45/EC (E 174)
144	Titanium dioxide ⁽¹⁾	77891		236-675-5	White			Purity criteria as set out in Commission Directive 95/45/EC (E 171)
145	Zinc oxide ⁽²⁾	77947	1314-13-2	215-222-5	White			Not to be used in applications that may lead to exposure of the end-user's lungs by inhalation.
146	Riboflavin	Lactoflavin		201-507-1/204-988-6	Yellow			Purity criteria as set out in Commission Directive 95/45/EC (E 101)
147	Caramel	Caramel		232-435-9	Brown			Purity criteria as set out in Commission Directive 95/45/EC (E 150a-d)
148	Paprika extract, Capsanthin, capsorubin	Capsanthin, capsorubin		207-364-1/207-425-2	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 160c)
149	Beetroot red	Beetroot Red	7659-95-2	231-628-5	Red			Purity criteria as set out in Commission Directive 95/45/EC (E 162)

Table 1 (Concluded)

Sl No.	Substance Identification				Conditions			
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
150	Anthocyanins (Cyanidin, Peonidin Malvidin Delphinidin Petunidin Pelargonidin)	Anthocyanins	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)
151	Aluminium, zinc, magnesium and calcium stearates	Aluminum stearate Zinc stearate Magnesium stearate Calcium stearate	7047-84-9 557-05-1 557-04-0 1592-23-0	230-325-5 209-151-9 209-150-3 216-472-8	White			
152	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		
153	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		
154	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		

NOTES

1 For use as a UV-Filter, see Sl. No. 25, Annex D of IS 4707 (Part 2).

2 For use as a UV-filter, see Sl. No. 27, Annex D of IS 4707 (Part 2).

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ANNEX A

(*Clause 4.1*)

LIST OF SUBSTANCES EXCLUDED FROM THE SCOPE OF THE STANDARD

A-1 Strontium and its compounds, with the exception of strontium lactate, strontium nitrate and strontium polycarboxylate listed in Annex A of IS 4707 (Part 2), Strontium chloride, strontium acetate,	strontium hydroxide, strontium peroxide, under the conditions laid down in Annex B of IS 4707 (Part 2) and of strontium lakes, pigments and salts of the colourants listed in Table 1.
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ANNEX B

(Foreword)

COMMITTEE COMPOSITION

Cosmetics Sectional Committee, PCD 19

<i>Organization</i>	<i>Representative(s)</i>
Drugs Controller General (India), Delhi	DR V. G. SOMANI (Chairman)
Chemstar Limited, Mumbai	SHRI SUNIL JOSHI
CSIR Indian Institute of Toxicological Research, Lucknow	DR R. S. RAY
Department of AYUSH, Delhi	DR D. C. KATOCH
Directorate of Drugs Control, Kolkata	SHRI K. R. CHAWLA
Envisbe Solutions Pvt Limited, Mumbai	SHRI BENEDICT M. MASCARENHAS
Food and Drugs Administration Maharashtra, Mumbai	SHRI O. S. SADHWANI
Fragrance and Flavours Association of India, (FAFAI), Mumbai	SHRI HASMUKH PATEL
Hindustan Lever Limited (HUL), Mumbai	MS VRINDA RAJWADE
Indian Beauty & Hygiene Association (IBHA), Mumbai	MS MALATHI NARAYANAN
Kelkar Education Trusts (KETS) Scientific Research Centre, Mumbai	DR S. S. BARVE
Mikasa Cosmetics Limited, Ahmedabad	MS TRUPTI PATEL
Ministry of Micro, Small and Medium Enterprises (MSME), Delhi	DR ARUN KUMAR
Procter & Gamble, Mumbai	SHRI SIVAKUMAR THANIGACHALAM
All India Cosmetic Manufacturers Association, Mumbai	MS KAJAL ANAND DR VIRENDRA V. CHAVAN (<i>Alternate</i>)
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Central Drugs Standard Control Organization (CDSCO), Delhi	DR S. P. SHANI
Central Drugs Testing Laboratory (CDTL), Chennai	MS C. VIJAYA LAKSHMI DR J. UMA MAHESWARI (<i>Alternate</i>)
Central Drugs Testing Laboratory (CDTL), Mumbai	DR RAMAN MOHAN SINGH MS S. U. WARDE (<i>Alternate</i>)
Colgate Palmolive (India) Limited, Mumbai	DR MANAS V. VYAS DR PURUSHOTTAM JADHAV (<i>Alternate I</i>) MS SHARDA GANESH (<i>Alternate II</i>)
Consumer Guidance Society of India, Mumbai	DR SITARAM DIXIT DR M. S. KAMATH (<i>Alternate</i>)
Dabur India Limited, Sahibabad	DR PRASUN BANDYOPADHYAY DR S. K. LUTHRA (<i>Alternate I</i>) SHRI SHIVAJI RAI (<i>Alternate II</i>)
Directorate of Food and Drugs Administration, Goa	MS JYOTI J. SARDESSAI MS SHWETA DESSAI (<i>Alternate</i>)
Drugs Control Department, Delhi	SHRI A. K. NASA SHRI K. R. CHAWLA (<i>Alternate</i>)
Essential Oil Association of India (EOAI), Noida	SHRI YOGESH DUBEY SHRI PRADEEP KUMAR JAIN (<i>Alternate</i>)

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<i>Organization</i>	<i>Representative(s)</i>
Food and Drugs Control Administration Gujarat, Gandhinagar	DR H. G. KOSHIA SHRI V. R. SHAH (<i>Alternate</i>)
Food and Drugs Administration Haryana, Panchkula	SHRI NARENDER KUMAR AHOOJA SHRI MANMOHAN TANEJA (<i>Alternate</i>)
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Voluntary Organization In Interest of Consumer Education (VOICE), Delhi	DR M. A. U. KHAN SHRI K. C. CHAUDHARY (<i>Alternate</i>)
In personal capacity	DR A. N. BHAT
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Member Secretary

SHRIMATI. NISHA BURA
SCIENTIST 'C' (PCD), BIS

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