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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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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 colourants 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.

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-toly)butyramide		11725		Orange	Rinse-off products		
7	4-(Phenylazo)resorcinol		11920		Red	Not to be used in products applied on mucous membranes		
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-toly)-4-[(2,4,5-trichlorophenoxy)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	Product Type, Body Parts	Maximum Concentration in ready for use Preparation	Other	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
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-1-phenyl-1-phenyl-1-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-sulphonatophenyl)azo]naphthalenesulphonate		14720		222-657-4	Red		
20	Disodium 6-[(2,4-dimethyl-6-sulphonatophenyl)azo]-5-hydroxynaphthalene-1-sulphonate		14815			Red	Purity criteria as set out in Commission Directive 95/45/EC (E 122)	
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		

Table 1 (Continued)

Sl No.	Substance Identification				Conditions			
	Chemical Name	Colour index Number/Name of Common Ingredients Glossary	CAS Number	EC Number	Product Type, Body Parts	Maximum Concentration in ready for use Preparation	Other	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
22	Calcium disodium bis[2-chloro-5-[(2-hydroxy-1-naphthyl)azo]-4-sulphonatobenzate]		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-1-sulphonophenyl)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-sulphonophenyl)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-(2-methoxy-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)naphthalenedisulfonic acid, 3-((4-cyclohexyl-2-methylphenyl)azo)-4-hydroxy-5-(((4-methylphenyl)sulfonyl)amino)-, disodium salt	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			

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	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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	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-(2,4-dichlorophenyl)azo]-3-oxobutyramide]		20040		Yellow	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[N-(2,4-dimethylphenyl)-3-oxobutyramide]		21100		Yellow	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	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	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]lazo]naphthalene-2-sulphonate	24790		Red	Rinse-off products				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
51	1-(4-(Phenylazo)phenyl)lazo)-2-naphthol	26100		Red	Not to be used in products applied on mucous membranes				
52	Tetrasodium 6-amino-4-hydroxy-3-[[(7-sulphonato-4-[4-sulphonatophenyl)lazo]-1-naphthyl]lazo]naphthalene-2,7-disulphonate	27755		Black					
53	Tetrasodium 1-acetamido-2-hydroxy-3-(4-((4-sulphonatophenyl)lazo)-7-sulphonato-1-naphthyl)lazo)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-ethenediy)bis[5-nitro-, disodium salt, reaction products with 4-[(4-aminophenyl)lazo] benzenesulfonic acid, sodium salts	40215		Orange	Rinse-off products				Purity criteria as set out in Commission Directive 95/45/EC (E 160a)
55	beta Carotene	40800	230-636-6	Orange					Purity criteria as set out in Commission Directive 95/45/EC (E 160e)
56	8'-apo-.beta.-Caroten-8'-al	40820		Orange					

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	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 16(g))		
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-[benzyl(ethylamino)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)

SI No.	Substance Identification				Conditions			
	Chemical Name	Colour index Number/Name of Common Ingredients Glossary	CAS Number	EC Number	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]methylene]-cyclohexa-2,5-dien-1-ylidene][ethyl]]	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]]	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-o-tolyl)(4-imino-3-methylecyclohexa-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]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			Purity criteria as set out in Commission Directive 95/45/EC (E 142)
71	Hydrogen 3,6-bis(diethylamino)-9-(2,4-disulphonatophenyl)xanthyllium, sodium salt	45100		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	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
72	Hydrogen 9-(2-carboxylatophenyl)-3-(2-methylanilino)-6-(2-methyl-4-sulphoanilinooxanthyl)ium, 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 percent	
75	4',5'-Dibromo-3',6'-dihydroxyspiro [isobenzofuran-1(3H),9'-[9H]xanthene]-3-one and its insoluble barium, strontium and zirconium lakes, salts and pigments	45370			Orange		Not more than 1 percent 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid and 2 percent 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 percent 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid and 2 percent 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid	
77	3',6'-Dihydroxy-4',5'-dimetoxyspiro [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-oxoxanthen-9-yl)benzoate	45405			Red	Not to be used in eye products	Not more than 1 percent 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid and 2 percent 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 percent 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl) benzoic acid and 2 percent 2-(bromo-6-hydroxy-3-oxo-3H-xanthen-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	Disodium 2-(2,4,5,7-tetraiodo-6-oxido-3-oxoxanthan-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 methyl/quinoline and quinoline sulfonated, sodium salts	47000			Yellow	Not to be used in products applied on mucous membranes			
82	1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts	47005		305-897-5	Yellow			Purity criteria as set out in Commission Directive 95/45/EC (E 104)	
83	Hydrogen 9-[{(3-methoxyphenyl) amino]-7-phenyl-5-(phenylamino)-4,10-disulphonatobenz[alpha]phenazinium, sodium salt	50325			Violet	Rinse-off products			
84	Sulfonated nigrone 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)aminomethyl]oluene-3-sulphonate	60730			Violet	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	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	Disodium 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-Dihydroanthraazine-5,9,14,18-tetrone		69800		Blue			
96	7,16-dichloro-6,15-dihydroanthraazine-5,9,14,18-tetron		69825		Blue			
97	Bisbenzimidazo[2,1-b:2',1'-j]benzo[1mnl][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	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	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-dimethyl[quino[2,3-b]acridine-7,14-dione	73915		Red	Rinse-off products			
104	29H,31H-Pthalocyanine	74100		Blue	Rinse-off products			
105	29H,31H-Pthalocyaninato(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.-Carotenedioic acid	75100		Yellow				
109	Anatto	75120	215 - 735 - 4/289-561 - 2/230-248-7	Orange	Purity criteria as set out in Commission Directive 95/45/EC (E 160b)			
110	Lycopene	75125	—	Yellow	Purity criteria as set out in Commission Directive 95/45/EC (E 160d)			
111	CI Food Orange 5	75130	214-171-6	Orange	Purity criteria as set out in Commission Directive 95/45/EC (E 160a)			
112	(3R)-beta-4-Caroten-3-ol	75135		Yellow				
113	2-Amino-1,7-dihydro-6H-purin-6-one	75170		White	Purity criteria as set out in Commission Directive 95/45/EC (E 100)			
114	Curcumins	75300	207-280-5	Yellow				
115	Carmines	75470	215 - 680 - 6/215-023 - 3/215-724-4	Red	Purity criteria as set out in Commission Directive 95/45/EC (E 120)			

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	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-2IH,23IH-porphine-2-propionato(5-)N21,N22,N23,N24]cuprate(3-) (Chlorophylls)	75810	215-800-	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, containing calcium, magnesium or iron carbonates, ferric hydroxide, quartz-sand, mica, etc. as impurities	$\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$	77004		White			
120	Lazurite		77007		Blue			
121	Aluminum 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-	White			Purity criteria as set out in Commission Directive 95/45/EC (E 170)
126	Calcium sulfate		77231	9/215-279-6	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, 931-325-0, 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			
131	Chromium (III) hydroxide	77289			Green			
132	Cobalt Aluminum Oxide	77346			Green			
133	Copper	77400			Brown			
134	Gold	77480			Brown			
135	Iron oxide	77489			Orange			
136	Iron Oxide Red	77491			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)

Table 1 (Continued)

Sl No.	Chemical Name	Substance Identification			Conditions			
		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			
144	Titanium dioxide ⁽¹⁾		77891	236-675-5	White			
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			207-364-1/207-425-2	Orange			Purity criteria as set out in Commission Directive 95/45/EC (E 160c)
149	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	Product Type, Body Parts	Maximum Concentration in ready for use Preparation	Other	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
150	Anthocyanins (Cyanidin, Peonidin Malvidin Delphinidin Petunidin Pelargonidin)	Anthocyanins 528-58-5 134-01-0 528-53-0 643-84-5 134-04-3 — 205-127-7	528-58-5 134-01-0 528-53-0 643-84-5 134-04-3 — 205-127-7	208-438-6 205-125-6 211-403-8 208-437-0	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 Bromothymol blue	7047-84-9 557-05-1 557-04-0 1592-23-0 76-59-5	230-325-5 209-151-9 209-150-3 216-472-8 200-971-2	White			
152	Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene) bis[2-bromo-3-methyl-6-(1-methylethyl)-, S,S-dioxide	Bromoresol green	76-60-8	200-972-8	Blue	Rinse-off products		
153	Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene) bis[2,6-dibromo-3-methyl-, S,S-dioxide	Bromoresol 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)bazo]-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).

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.

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
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Mikasa Cosmetics Limited, Ahmedabad	MS TRUPTI PATEL
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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 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>)

<i>Organization</i>	<i>Representative(s)</i>
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Member Secretary

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SCIENTIST 'C' (PCD), BIS

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