

The regulatory requirements for the use of limited dosage of hair dyes in the standards for cosmetics containing medical, poisonous or potent drugs

No.	Chemical name	INCI name	CAS No.	Maximum concentration		restriction/ warning statement
				Oxidative hair dye products	Non-oxidative hair dye products	
1	p-Phenylenediamine and its salts	p-Phenylenediamine/ p-Phenylenediamine HCl/ p-Phenylenediamine sulfate	106-50-3/ 624-18-0/ 16245-77-5	2% (calculated as free base)		
2	1,4-Benzenediamine, 2-methyl-/ 2,5-Diaminotoluene sulphate	Toluene 2,5-diamine/ Toluene-2,5-diamine sulfate	95-70-5/ 615-50-9	2% (calculated as free base) 3.6% (calculated as sulfate salt)		
3	5-Amino-o-cresol	4-Amino-2-hydroxytoluene	2835-95-2	1.5%		
4	m-Aminophenol and its salts	m-Aminophenol/ m-Aminophenol HCl/ m-Aminophenol sulfate	591-27-5/ 51-81-0/ 68239-81-6/ 38171-54-9	1.2%		
5	4-Aminophenol	p-Aminophenol	123-30-8	0.9%		
6	1,4-Diaminoanthraquinone	Disperse Violet 1	128-95-0		0.5%	
7	2,4-Diaminophenoxyethanol, its hydrochloride and its sulphate	2,4-Diaminophenoxyethanol HCl/ 2,4-Diaminophenoxyethanol sulfate	70643-19-5/ 66422-95-5/ 70643-20-8	2% (calculated as hydrochloride)		
8	Naphthalene-1,5-diol	1,5-Naphthalenediol	83-56-7	1%	1%	
9	Pyridine-2,6-diyl diamine	2,6-Diaminopyridine	141-86-6	0.15%		
10	5-[2-Hydroxyethyl]amino)-o-cresol	2-Methyl-5-hydroxyethylaminophenol	55302-96-0	1.5%		Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
11	p-Methylaminophenol and its sulphate	p-Methylaminophenol/ p-Methylaminophenol sulfate	150-75-4/ 55-55-0/ 1936-57-8	0.68% (calculated as sulfate)		Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
12	4-Nitro-1,2-phenylenediamine	4-Nitro-o-phenylenediamine	99-56-9	0.5%		

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13	N-(4-aminophenyl)aniline	N-Phenyl-p-phenylenediamine	101-54-2	3%		
14	N-Phenyl-p-phenylenediamine acetate	-	-	3%		
15	N-phenylbenzene-p-diamine monohydrochloride (CI 76085)	N-phenyl-p-phenylenediamine HCl	2198-59-6/ 56426-15-4	3%		
16	2-Amino-4,6-dinitrophenol and 2-Amino-4,6- dinitrophenol, sodium salt	Picramic acid and sodium picramate	96-91-3/ 831-52-7	0.6%	0.6%	
17	2-Amino-6-chloro-4-nitrophenol	2-Amino-6-chloro-4-nitrophenol	6358-09-4	2%	2%	
18	4-Amino-m-cresol	4-Amino-m-cresol	2835-99-6	1.5%		
19	3-Amino-2,4-dichlorophenol and its hydrochloride	3-Amino-2,4-dichlorophenol/ 3-Amino-2,4-dichlorophenol HCl	61693-42-3/ 61693-43-4	1.5% (calculated as hydrochloride)	1.5% (calculated as hydrochloride)	
20	2-[(3-Amino-4-methoxyphenyl)amino] ethanol and its sulphate	2-Amino-4-hydroxyethylaminoanisole/ 2-Amino-4-hydroxyethylaminoanisole sulfate	83763-47-7/ 83763-48-8	1.5% (calculated as sulfate)		Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
21	4-Amino-3-nitrophenol	4-Amino-3-nitrophenol	610-81-1	1.5%	1%	
22	4,4'-[1,3-Propanediylbis(oxy)]bisbenzene-1,3-diamine and its tetrahydrochloride salt	1,3-bis-(2,4-Diaminophenoxy)propane/ 1,3-bis-(2,4-Diaminophenoxy)propane HCl	81892-72-0/ 74918-21-1	1.2% (calculated as free base) 1.8% (calculated as tetrahydrochloride salt)	1.2% (calculated as free base) 1.8% (calculated as tetrahydrochloride salt)	
23	2,2'-(4-Aminophenyl)imino]bis(ethanol) sulphate	N,N-bis(2-Hydroxyethyl)-p-phenylenediamine sulfate	54381-16-7	2.5% (calculated as sulfate)		Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
24	Phenol, 2-Chloro-6-(ethylamino)-4-nitro-	2-Chloro-6-ethylamino-4-nitrophenol	131657-78-8	1.5%	3%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
25	1,3-Benzenediol,4-Chlororesorcinol (CI 76510)	4-Chlororesorcinol	95-88-5	2.5%		
26	6-Hydroxy-3,4-dimethyl-2-pyridone	2,6-Dihydroxy-3,4-dimethylpyridine	84540-47-6	1%		

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27	2,6-Dimethoxy-3,5-pyridinediamine and its hydrochloride	2,6-Dimethoxy-3,5-pyridinediamine/ 2,6-Dimethoxy-3,5-pyridinediamine HCl	56216-28-5/ 85679-78-3	0.25% (calculated as hydrochloride)		
28	Ethanol, 2,2'-[4-[(4-aminophenyl)azo]phenyl]imino]bis-	Disperse Black 9	20721-50-0		0.3%	The mixture in the ratio 1:1 of 2,2'-[4-(4-aminophenylazo)phenylimino]diethanol and lignosulfate
29	2,2'-[4-[(2-Hydroxyethyl)amino]-3-nitrophenyl]imino]bisethanol	HC Blue No. 2	33229-34-4		2.8%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
30	1-[(2'-Methoxyethyl)amino]-2-nitro-4-[di-(2'-hydroxyethyl)amino]benzene	HC Blue No. 11	23920-15-2		2%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
31	1-(beta-Hydroxyethyl)amino-2-nitro-4-N-ethyl-N -(beta-hydroxyethyl)aminobenzene and its hydro chloride	HC Blue No. 12	104516-93-0/ 132885-85-9	0.75% (calculated as hydrochloride)	1.5% (calculated as hydrochloride)	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
32	4-[(2-Nitrophenyl)amino]phenol	HC Orange No. 1	54381-08-7		1%	
33	1-(beta-Aminoethyl)amino-4-(beta-hydroxyethyl)oxy-2-nitrobenzene and its salts	HC Orange No. 2	85765-48-6		1%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
34	2-Nitro-N1-phenyl-benzene-1,4-diamine	HC Red No. 1	2784-89-6		1%	
35	1-Amino-2-nitro-4-(2',3'-dihydroxypropyl) amino-5-chloro-benzene+ 1,4-bis-(2',3'-dihydroxypropyl)amino-2-nitro-5-chlorobenzene	HC Red No. 11+ HC Red No. 10	95576-92-4+ 95576-89-9	1%	2%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
36	2,2'-[4-Amino-3-nitrophenyl]imino]bisethanol hydrochloride and its salts	HC Red No. 13	29705-39-3/ 94158-13-1	1.25% (calculated as hydrochloride)	2.5% (calculated as hydrochloride)	
37	Ethanol, 2-[(4-amino-2-methyl-5-nitrophenyl)amino]- and its salts	HC Violet No. 1	82576-75-8	0.25%	0.28%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers

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38	1-Propanol, 3-[[4-[bis(2-hydroxyethyl)amino]-2-nitrophenyl]amino]	HC Violet No. 2	104226-19-9		2%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
39	2-[(2-Nitrophenyl)amino]ethanol	HC Yellow No. 2	4926-55-0	0.75%	1%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
40	2-[bis(2-Hydroxyethyl)amino]-5-nitrophenol	HC Yellow No. 4	59820-43-8		1.5%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
41	1,5-Di-(beta-hydroxyethylamino)-2-nitro-4-chlorobenzene	HC Yellow No. 10	109023-83-8		0.1%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
42	3,4-Dihydro-2H-1,4-benzoxazin-6-ol	Hydroxybenzomorpholine	26021-57-8	1%		Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
43	2-(4-Methyl-2-nitroanilino)ethanol	Hydroxyethyl-2-nitro-p-toluidine	100418-33-5	1%	1%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
44	2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride	Hydroxyethyl-3,4-methylenedioxylaniline HCl	94158-14-2	1.5%		Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
45	Hydroxypropyl bis(N-hydroxyethyl-p-phenylenediamine) and its tetrahydrochloride	Hydroxypropylbis(N-hydroxyethyl-p-phenylene-diamine) HCl	128729-30-6/ 128729-28-2	0.4% (calculated as tetrahydrochloride)		
46	2-[(2-methoxy-4-nitrophenyl)amino]ethanol and its salts	2-Hydroxyethylamino-5-nitroanisole	66095-81-6		0.2%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
47	1-Hydroxy-2-beta-hydroxyethylamino-4,6-dinitrobenzene	2-Hydroxyethyl picramic acid	99610-72-7	1.5%	2%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers

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48	1-Hydroxy-3-nitro-4-(3-hydroxypropylamino)benzene	4-Hydroxypropylamino-3-nitrophenol	92952-81-3	2.6%	2.6%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
49	1,3-Benzenediol, 2-methyl	2-Methylresorcinol	608-25-3	1.8%	1.8%	
50	2-[3-(Methylamino)-4-nitrophenoxy]ethanol	3-Methylamino-4-nitrophenoxyethanol	59820-63-2		0.15%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
51	Naphthalene-2,7-diol	2,7-Naphthalenediol	582-17-2	1%	1%	
52	1-Naphthalenol	1-Naphthol	90-15-3	2%		
53	4-[(2-Hydroxyethyl)amino]-3-nitrophenol	3-Nitro-p-hydroxyethylaminophenol	65235-31-6	3%	1.85%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
54	1-(.beta.-Ureidoethyl)amino-4-nitrobenzene	4-Nitrophenyl aminoethylurea	27080-42-8	0.25%	0.5%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
55	3-Methyl-1-phenyl-5-pyrazolone	Phenyl methyl pyrazolone	89-25-8	0.25%		
56	1,3-Benzenediol	Resorcinol	108-46-3	1.25%		
57	3-Amino-2-chloro-6-methylphenol/ 3-Amino-4-chloro-6-methylphenol HCl	5-Amino-6-chloro-o-cresol/ 5-Amino-6-chloro-o-cresol HCl	84540-50-1/ 80419-48-3	1%	0.5%	
58	2-Aminopyridin-3-ol	2-Amino-3-hydroxypyridine	16867-03-1	1%		
59	2-[(4-Aminophenyl)azo]-1,3-dimethyl-1H-imidazolium chloride	Basic Orange 31	97404-02-9	0.5%	1%	
60	2-[(4-Dimethylamino)phenyl]azo]-1,3-dimethyl-1H-imidazolium chloride	Basic Red 51	77061-58-6	0.5%	1%	
61	[7-Hydroxy-8-[(2-methoxyphenyl)azo]-2-naphthyl]trimethylammonium chloride	Basic Red 76	68391-30-0		2%	
62	Pyridinium, 1-methyl-4-[(methylphenyl-hydrazono)methyl]-,methyl sulfate	Basic Yellow 87	68259-00-7	1%	1%	

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63	1-Methyl-2,6-bis(2-hydroxyethylamino)-benzene	2,6-Dihydroxyethylaminotoluene	149330-25-6	1%		Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
64	2-(4-Amino-2-nitroanilino)ethanol	HC Red No. 3	2871-01-4	0.45%	3%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
65	3-(2-Hydroxyethyl)-p-phenylenediammonium sulphate	Hydroxyethyl-p-phenylenediamine sulfate	93841-25-9	2% (calculated as sulfate)		
66	6-Methoxy-N2-methyl-2,3-pyridinediamine hydrochloride and dihydrochloride salt	6-Methoxy-2-methylamino-3-aminopyridine HCl	90817-34-8/ 83732-72-3	0.68% (calculated as free base) 1% (calculated as dihydrochloride)	0.68% (calculated as free base) 1% (calculated as dihydrochloride)	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
67	bis(N-phenylbenzene-p-diamine)sulphate	N-Phenyl-p-phenylenediamine sulfate	4698-29-7	3% (calculated as free base)		
68	Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate and aluminium lake (CI19140)	Acid Yellow 23/ Acid Yellow 23 Aluminum lake	1934-21-0/ 12225-21-7		0.5%	
69	Benzinemethanaminium, N-ethyl-N-[4-[[4-[ethyl-[ (3-sulfophenyl)-methyl]-amino]-phenyl](2-sulfophenyl)methylene]-2,5-cyclohexadien-1-ylidene]-3-sulfo, inner salts, disodium salt and its ammonium and aluminium salts (CI 42090)	Acid Blue 9/ Acid Blue 9 Ammonium salt/ Acid Blue 9 Aluminum lake	3844-45-9/ 2650-18-2/ 68921-42-6		0.5%	
70	Disodium 6-hydroxy-5-[(2-methoxy-4-sulphonato-m-tolyl)azo]naphthalene-2-sulphonate (CI 16035)	Curry Red	25956-17-6		0.4%	
71	Trisodium 1-(1-naphthylazo)-2-hydroxynaphthalene-4',6,8-trisulphonate and aluminium lake (CI 16255)	Acid Red 18/ Acid Red 18 Aluminum lake	2611-82-7/ 12227-64-4		0.5%	
72	Hydrogen 3,6-bis(diethylamino)-9-(2,4-disulphonatophenyl)xanthylum, sodium salt (CI 45100)	Acid Red 52	3520-42-1	1.5%	0.6%	
73	Sodium 1-amino-4-(cyclohexylamino)-9,10-dihydro-9,10-dioxoanthracene-2-sulphonate (CI 62045)	Acid Blue 62	4368-56-3		0.5%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers

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74	2,3-Dihydro-1H-indole-5,6-diol and its hydro-bromide salt	Dihydroxyindoline/ Dihydroxyindoline HBr	29539-03-5/ 138937-28-7		2%	
75	Disodium 5-amino-4-hydroxy-3-(phenylazo)naphthalene-2,7-disulphonate (CI 17200)	Acid Red 33	3567-66-6		0.5%	
76	2,4,5,6-Tetraaminopyrimidine sulphate	Tetraaminopyrimidine sulfate	5392-28-9	3.4% (calculated as sulfate)	3.4% (calculated as sulfate)	
77	1H-Indole-5,6-diol	Dihydroxyindole	3131-52-0	0.5%	0.5%	
78	5-Amino-4-chloro-2-methylphenol hydrochloride	5-Amino-4-Chloro-o-Cresol HCl	110102-85-7	1.5% (calculated as hydrochloride)		
79	1H-indole-2,3-dione	Isatin	91-56-5		1.6%	
80	2-Methyl-1-naphthyl acetate	1-Acetoxy-2-methylnaphthalene	5697-02-9	2%		
81	1-Hydroxy-2-methylnaphthalene	2-Methyl-1-naphthol	7469-77-4	2%		
82	Disodium 5,7-dinitro-8-oxido-2- naphthalene-sulfonate (CI 10316)	Acid Yellow 1	846-70-8	1%	0.2%	
83	1-Methoxy-3-(β-aminoethyl)amino-4-nitrobenzene, hydrochloride	HC Yellow No. 9	86419-69-4	0.5 (calculated as hydrochloride)	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers	
84	1-(4'-Aminophenylazo)-2-methyl- 4-(bis-2-hydroxyethyl) aminobenzene	HC Yellow No. 7	104226-21-3	0.25%		
85	Benzaminium, 3-[(4,5-dihydro- 3-methyl-5-oxo-1-phenyl-1H- pyrazol-4-yl)azo]-N,N,Ntrime thyl-, chloride	Basic Yellow 57	68391-31-1	2%		
86	9,10-Anthracenedione, 1,4-bis[(2,3-dihydroxy-propyl) amino]-	HC Blue No. 14	99788-75-7	0.3%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers	
87	4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole sulfate (1:1)	1-Hydroxyethyl-4,5-diamino pyrazole sulfate	155601-30-2	3%		
88	Quinolinium, 4-formyl-1-methyl-, salt with 4-methylbenzenesulfonic acid (1:1)	4-Formyl-1-methylquinolinium-p-toluenesulfonate	223398-02-5	2.5%		
89	2,6-Pyridinediamine, 3-(3-pyridinylazo)	2,6-Diamino-3-((pyridine-3-yl)azo)pyridine	28365-08-4	0.25%	0.25%	

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90	4-((4-Amino-3-methylphenyl)(4-imino-3-methyl-2,5-cyclohexadien-1-ylidene)methyl)-2-methylph enylamine monohydrochloride (CI 42520)	Basic Violet 2	3248-91-7	1%	0.5%	
91	2,3-Diamino-6,7-dihydro-1H,5H-pyrazolo[1,2-a] Pyrazol-1-one dimethanesulfonate	2,3-Diaminodihydropyrazolopyrazolone dimethosulfonate	857035-95-1	2%		
92	1-Methylamino-2-nitro-5-(2,3-dihydroxy-propoxy)-benzene	2-Nitro-5-glycerylmethylaniline	80062-31-3	0.8%	1%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
93	1-Propanaminium, 3-[[9,10-dihydro-4-(methylamino)-9,10-dioxo-1-anthracenyl]amino]-N,N-dimethyl-N-propyl-, bromide	HC Blue No. 16	502453-61-4		3%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
94	Phenol, 2,2'- methylenebis[4-amino-], dihydrochloride	2,2'- Methylenebis-4-aminophenol HCl	27311-52-0/ 63969-46-0	1%	1%	
95	Fluorescein, 2',4',5',7'-tetrabromo-4,5,6,7-tetra-chloro-, disodium salt (CI 45410)	Acid Red 92	18472-87-2	2%	0.4%	
96	Mixture of (1), (2)& (3) in dispersing agent (lignosulphate): (1)9,10-Anthracenedione-1,4-bis[(2-Hydroxy ethyl)amino] (2)9,10-Anthracenedione-1-[(2-Hydroxyethyl) amino]-4-[(3-Hydroxypropyl)amino] (3)9,10-anthracenedione-1,4-bis[(3-hydroxylpropyl)amino]	Disperse Blue 377 is a mixture of three dyes: (1)1,4-Bis[(2-hydroxyethyl)amino]anthra-9,10-quinone/ (2)1-[(2-hydroxyethyl)amino]-4-[(3-hydroxypropyl) amino]anthra-9,10-quinone/ (3)1,4-bis[(3-hydroxypropyl)amino]anthra-9,10-quinone	4471-41-4/ 67674-26-4/ 67701-36-4		2%	
97	Sodium,4-[(9,10-dihydro-4-hydroxy-9,10-dioxo-1-anthryl)amino]toluene-3-sulphonate	Acid Violet 43	4430-18-6		0.5%	
98	2-(4-Amino-3-nitroanilino)ethanol	HC Red No. 7	24905-87-1		1%	Do not use with nitrosating agents; Maximum nitrosamine content : 50 microgram/kg(ppb); Keep in nitrite-free containers
99	Inorganic sulfites and bisulfites	-	-	0.67% (calculated as SO <sub>2</sub> )		
100	Phosphoric acid compound with 4-[(2,6-di-chlorophenyl)(4-imino-3,5-dimethyl-2,5-cyclohexadien-1-ylidene)methyl]-2,6-dimethylaniline (1:1)	HC Blue No. 15	74578-10-2	0.2%	0.2%	

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101	Diammonium peroxodisulphate	Ammonium Persulfate	7727-54-0	61.3%	For professional use only (Decolorizer)
102	Dipotassium peroxodisulphate	Potassium Persulfate	7727-21-1	70%	For professional use only (Decolorizer)
103	Disodium peroxodisulphate	Sodium Persulfate	7775-27-1	47%	For professional use only (Decolorizer)
104	Ammonia	Ammonia	7664-41-7/ 1336-21-6	6% (calculated as NH <sub>3</sub> )	

※Maximum Concentration : Maximum usage volume prepared with ingredients in accordance to the instruction manual.

※For hair dye products only, unless the substance regulated elsewhere in others regulation.