

## List of 49 hair dye substances proposed for ban

(Updated: September 2007)

No.	Chemical name / CAS No.	Example of the salts / CAS No.	INCI - Name	CAS No.	Cosmetics Directive
1	4-[(4-aminophenyl)(4-iminocyclohexa-2,5-dien-1-ylidene)methyl]-o-toluidine (CAS 3248-93-9) and its monohydrochloride salt	Benzenamine, 4-((4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl)-2-methyl-, monohydrochloride	Basic Violet 14	632-99-5	Annex IV and Annex III, part 2, no.60
2	4-(2,4-dihydroxyphenylazo)benzenesulphonic acid (CAS 2050-34-2) and its sodium salt	Sodium 4-(2,4-dihydroxyphenylazo)benzenesulphonate	Acid Orange 6	547-57-9	Annex IV
3	4-hydroxy-3-[(4-sulpho-1-naphthyl)azo]naphthalene-1-sulphonic acid (CAS 13613-55-3) and its disodium salt	Disodium 4-hydroxy-3-[(4-sulphonatonaphthyl)azo]naphthalenesulphonate	Acid Red 14	3567-69-9	Annex IV
4	3-hydroxy-4-(phenylazo)-2-naphthoic acid (CAS 27757-79-5)	Calcium bis[3-hydroxy-4-(phenylazo)-2-naphthoate] or Barium bis[3-hydroxy-4-(phenylazo)-2-naphthoate] (CAS 16508-79-5)	Pigment Red 64:1	6371-76-2	Annex IV
5	2-(6-hydroxy-3-oxo-(3H)-xanthen-9-yl)benzoic acid; Fluorescein (CAS 2321-07-5)	Disodium 2-(3-oxo-6-oxidoxanthen-9-yl)benzoate; Fluorescein disodium salt; Fluorescein dihydrochloride salt (CAS 518-47-8) or Fluorescein dipotassium salt (CAS 6417-85-2)	Acid Yellow 73 sodium salt	518-47-8	Annex IV
6	4',5'-dibromo-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one; 4',5'-dibromofluorescein	4',5'-dibromo-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one, disodium salt (CAS 4372-02-5)	Solvent Red 72	596-03-2	Annex IV
7	2-(3,6-dihydroxy-2,4,5,7-tetrabromoxanthen-9-yl)-benzoic acid; Fluorescein, 2',4',5',7'-tetrabromo (CAS 15086-94-9)	Eosine; Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate; Fluorescein, 2',4',5',7'-tetrabromo, disodium salt; or	Acid Red 87	17372-87-1	Annex IV
		Dialuminium tris[2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate]	Pigment Red 90:1 Aluminum lake	15876-39-8	Annex IV
8	Xanthylium, 9-(2-carboxyphenyl)-3-(2-methylphenyl)amino)-6-((2-methyl-4-sulphophenyl)amino)-, inner salt (CAS 10213-95-3)	Hydrogen 9-(2-carboxylatophenyl)-3-(2-methylanilino)-6-(2-methyl-4-sulphoanilino)xanthylium, monosodium salt	Acid Violet 9	6252-76-2	Annex IV
9	3',6'-dihydroxy-4',5'-diiodospiro(isobenzofuran-1(3H),9'-[9H]xanthene)-3-one (CAS 38577-97-8)	3',6'-Dihydroxy-4',5'-diiodospiro(isobenzofuran-1(3H),9'-[9H]xanthene)-3-one, disodium salt; or	Acid Red 95	33239-19-9	Annex IV
		3',6'-dihydroxy-4',5'-diiodospiro(isobenzofuran-1(3H),9'-[9H]xanthene)-3-one; 4',5'-Diiodofluorescein	Solvent Red 73	38577-97-8	Annex IV

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10	2',4',5',7'-tetraiodofluorescein (CAS 15905-32-5)	2-(3,6-dihydroxy-2,4,5,7-tetraiodoxanthen-9-yl)benzoic acid, aluminium salt	Pigment Red 172 Aluminum lake	12227-78-0	Annex IV
11	2',4',5',7'-tetraiodofluorescein (CAS 15905-32-5)	Erythrosine sodium; Disodium 2-(2,4,5,7-tetraiodo-6-oxido-3-oxoxanthen-9-yl)benzoate	Acid Red 51	16423-68-0	Annex IV
12	1-Hydroxy-2,4-diaminobenzene and its HCl salt (CAS 137-09-7) (dihydrochloride salt)		2,4-Diaminophenol	95-86-3	Annex III, part 1, no.10
13	1,4-Dihydroxybenzene		Hydroquinone	123-31-9	Annex III, part 1, no.14
14	Bis-4,4'-dimethylaminophenol-4"-phenylaminonaphthylcarbenium chloride		Basic Blue 26	2580-56-5	Annex IV and Annex III, part 2, no.57
15	Disodium 3-[(2,4-dimethyl-5-sulphonatophenyl)azo]-4-hydroxynaphthalene-1-sulphonate (14700)		Ponceau SX	4548-53-2	Annex IV and Annex III, part 2, no.59
16	Riboflavin, Vitamin B2		Lactoflavin, Riboflavin	83-88-5	Annex IV
17	Trisodium tris[5,6-dihydro-5-(hydroxyimino)-6-oxonaphthalene-2-sulphonato(2-)-N5,O6]ferrate(3-)		Acid Green 1	19381-50-1	Annex IV
18	4-(phenylazo)resorcinol and its salts		Solvent Orange 1	2051-85-6	Annex IV
19	4-[(4-ethoxyphenyl)azo]naphthol and its salts		Solvent Red 3	6535-42-8	Annex IV
20	1-[(2-chloro-4-nitrophenyl)azo]-2-naphthol and its salts		Pigment Red 4	2814-77-9	Annex IV
21	3-hydroxy-N-(o-tolyl)-4-[(2,4,5-trichlorophenyl)azo]naphthalene-2-carboxamide and its salts		Pigment Red 112	6535-46-2	Annex IV
22	N-(5-chloro-2,4-dimethoxyphenyl)-4-[[5-[(diethylamino)sulphonyl]-2-methoxyphenyl]azo]-3-hydroxynaphthalene-2-carboxamide and its salts		Pigment Red 5	6410-41-9	Annex IV
23	Disodium 4-[(5-chloro-4-methyl-2-sulphonatophenyl)azo]-3-hydroxy-2-naphthoate		Pigment Red 48	3564-21-4	Annex IV
24	Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate		Pigment Red 63:1	6417-83-0	Annex IV

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25	Disodium 6-hydroxy-5-[(4-sulphonatophenyl)azo]naphthalene-2-sulphonate		Sunset Yellow	2783-94-0	Annex IV
26	Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2,7-disulphonate		Acid Red 27	915-67-3	Annex IV
27	2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2,4-dimethylphenyl)-3-oxobutyramide]		Pigment Yellow 13	5102-83-0	Annex IV
28	2,2'-[cyclohexylidenebis[(2-methyl-4,1-phenylene)azo]]bis[4-cyclohexylphenol]		Solvent Yellow 29	6706-82-7	Annex IV
29	1-((4-Phenylazo)phenylazo)-2-naphthol		Solvent Red 23	85-86-9	Annex IV
30	Tetrasodium 6-amino-4-hydroxy-3-[[7-sulphonato-4-[(4-sulphonatophenyl)azo]-1-naphthyl]azo]naphthalene-2,7-disulphonate		Food Black 2	2118-39-0	Annex IV
31	Tetrasodium 1-acetamido-2-hydroxy-3-(4-((4-sulphonatophenylazo)-7-sulphonato-1-naphthylazo))naphthalene-4,6-disulphonat		Brilliant Black 1	2519-30-4	Annex IV
32	Hydrogen [4-[4-(diethylamino)-2',4'-disulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene]diethylammonium, sodium salt		Acid Blue 1	129-17-9	Annex IV
33	Bis[hydrogen [4-[4-(diethylamino)-5'-hydroxy-2',4'-disulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene]diethylammonium], calcium salt		Acid Blue 3	3536-49-0	Annex IV
34	Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino](4-hydroxy-2-sulphonatobenzhydrylidene)cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium, disodium salt		Fast Green FCF	2353-45-9	Annex IV
35	Hydrogen [4-[4-(dimethylamino)- $\alpha$ -(2-hydroxy-3,6-disulphonato-1-naphthyl)benzylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium, monosodium salt		Acid Green 50	3087-16-9	Annex IV
36	2-(3,6-dihydroxy-2,4,5,7-tetrabromoxanthen-9-yl)-benzoic acid; Fluorescein, 2',4',5',7'-tetrabromo		Solvent Red 43	15086-94-9	Annex IV

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37	1,3-isobenzofurandione, reaction products with methylquinoline and quinoline		Solvent Yellow 33	8003-22-3	Annex IV
38	Nigrosine		Acid Black 2	8005-03-6	Annex IV
39	8,18-dichloro-5,15-diethyl-5,15-dihydroindolo[3,2-b:3',2'-m]triphenodioxazine		Pigment Violet 23	6358-30-1	Annex IV
40	1,2-dihydroxyanthraquinone		Pigment Red 83	72-48-0	Annex IV
41	Trisodium 8-hydroxypyrene-1,3,6-trisulphonate		Solvent Green 7	6358-69-6	Annex IV
42	1-hydroxy-4-(p-toluidino)anthraquinone		Solvent Violet 13	81-48-1	Annex IV
43	1,4-bis(p-tolylamino)anthraquinone		Solvent Green 3	128-80-3	Annex IV
44	Disodium 5,5'-(2-(1,3-dihydro-3-oxo-2H-indazol-2-ylidene)-1,2-dihydro-3H-indol-3-one)disulphonate		Acid Blue 74	860-22-0	Annex IV
45	6-chloro-2-(6-chloro-4-methyl-3-oxobenzo[b]thien-2(3H)-ylidene)-4-methylbenzo[b]thiophene-3(2H)-one		VAT Red 1	2379-74-0	Annex IV
46	5,12-dihydroquino[2,3-b]acridine-7,14-dione		Pigment Violet 19	1047-16-1	Annex IV
47	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper		Pigment Blue 15	147-14-8	Annex IV
48	Disodium [29H,31H-phthalocyaninedisulphonato(4-)-N29,N30,N31,N32]cuprate(2-)		Direct Blue 86	1330-38-7	Annex IV
49	Polychloro copper phthalocyanine		Pigment Green 7	1328-53-6	Annex IV