



## AAFA - RSL July 2008 - Release 3

CAS Number	Chemical Name/Color Index Name	Restriction / Limit on Final Product or Tested Component	Country	Regulation	Test Method [detection limit]	Other Countries that also Regulate this Substance	Comment
<b>DYES</b>							
AZO Dyes which, by reductive cleavage of one or more AZO groups, may release one or more of the following aromatic amines							
60-09-3	4-Amino azobenzene <sup>1</sup>	Not Detected (below detection limits - see test method)	European Union and China	European Union Directive 2002/61/EC of the European Parliament: relating to restrictions on the marketing and use of certain dangerous substances and preparations (Azocolourants) The National Standard of the People's Republic of China GB 18401	Textiles (EU): EN 14362-1 Polyester(EU): EN 14362-2 Leather(EU): CEN ISO/TS 17234 [detection limit is 30 ppm] Textiles(China) GB/T 17592-2006 [detection limit 20 ppm] Test Method for 4-Aminoazobenzene (pAAB) confirmation § 64 LFGB B 82.02-9	South Korea	
97-56-3	<i>o</i> -Aminoazotoluene						
92-67-1	4-Aminodiphenyl						
99-55-8	2-Amino-4-nitrotoluene						
90-04-0	<i>o</i> -Anisidine						
92-87-5	Benzidine						
106-47-8	<i>p</i> -Chloroaniline						
95-69-2	4-Chloro- <i>o</i> -toluidine						
120-71-8	<i>p</i> -Cresidine						
615-05-4	2,4-Diaminoanisole						
101-77-9	4,4'-Diamino-diphenylmethane						
91-94-1	3,3'-Dichlorobenzidine						
119-90-4	3,3'-Dimethoxybenzidine						
119-93-7	3,3'-Dimethylbenzidine						
838-88-0	3,3'-Dimethyl-4,4'-diamino-diphenylmethane						
101-14-4	4,4'-Methylene-bis-(2-chloroaniline)						
91-59-8	2-Naphthylamine						
101-80-4	4,4'-Oxydianiline						
139-65-1	4,4'-Thiodianiline						
95-80-7	2,4-Toluenediamine						
95-53-4	<i>o</i> -Toluidine						

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137-17-7	2,4,5-Trimethylaniline						
95-68-1	2,4-Xylidine <sup>2</sup>						
87-62-7	2,6-Xylidine <sup>2</sup>						
<b>Footnotes:</b>							
1. Applicable in the European Union Regulation Only							
2. Applicable in the Chinese Regulation only							
<b>Disperse Dyes</b>							
2475-45-8	Disperse Blue 1	Not Detected (below detection levels - see regulation)	Germany	§64 LFGB B82.02-10	DIN 54231 Disperse Dyes [detection limit is 5 mg/L in extract]		
56524-77-7 or 56524-76-6	Disperse Blue 35						
12223-01-7	Disperse Blue 106						
61951-51-7	Disperse Blue 124						
730-40-5	Disperse Orange 3						
13301-61-6	Disperse Orange 37/76						
2872-52-8	Disperse Red 1						
2832-40-8	Disperse Yellow 3						
<b>Other Dyes</b>							
118685-33-9	Navy Blue	0.1% by mass	European Union	European Union Directive 2003/3/EC of the European Parliament: relating to restrictions on the marketing and use of certain dangerous substances and preparations (Azocolourants)	Solvent extraction and GC-MS or LC-MS (industry practice - not specified by the regulation)		

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<b>SOLVENTS (Aliphatic Chlorohydrocarbons)</b>							
76-01-7	Pentachloroethane	0.1% (mass)-TOTAL	Germany and Japan	Germany - Chemikalienverbot Verordnung (Prohibition of Chemicals Ordinance), section 16 Japan Law for the Control of Household products Containing Harmful Substances	Headspace for components (industry practice not specified by the regulation)		
56-23-5	Carbon Tetrachloride						
630-20-6	1,1,1,2-Tetrachloroethane						
79-34-5	1,1,2,2-Tetrachloroethane						
67-66-3	Chloroform						
79-00-5	1,1,2-Trichloroethane						
75-35-4	1,1-Dichloroethylene						
71-55-6	1,1,1-Trichloroethane						
127-18-4	Tetrachloroethylene <sup>3</sup>						
<b>Footnotes:</b>							
<b>3. Applicable in the Japan Regulation Only</b>							

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<b>PESTICIDES</b>							
93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds	Not Detected	Switzerland and Finland (those pesticides without indication are regulated under Switzerland)	Switzerland: Art. 9, 11, 35 and 61 Ordinance relating to Environmentally Hazardous Substances(Ordinance on Substances) Finland: Ministry of Environment Government Decree on persistent organic substances (735/2002)	U.S. EPA Method 8081A/ 8151A - (industry practice not specified by the regulation)	Japan, South Korea	For Dieldrin, PCP, and TeCP, South Korea restrictions apply at different levels for underwear, baby clothing (<24 months) and bedclothes.
93-76-5	2,4,5-trichlorophenoxyacetic acid, its salts and compounds						
309-00-2	Aldrin (both Switzerland and Finland)						
57-74-9	Chlordane (both Switzerland and Finland)						
72-54-8	Dichloro-diphenyl-dichloro ethane (DDD)						
72-55-9	Dichloro-diphenyl-dichloro ethylene (DDE)						
50-29-3	Dichloro-diphenyl-trichloro ethane (DDT) (both Switzerland and Finland)						
60-57-1	Dieldrin (5) Also Japan, Switzerland, South Korea, and Finland						
72-20-8	Endrine (both Switzerland and Finland)						
76-44-8	Heptachlorine (both Switzerland and Finland)						
1024-57-3	Epoxy-heptachlorine						
118-74-1	Hexachlorobenzene (both Switzerland and Finland)						
608-73-1	Hexachlorocyclohexane (HCH, all isomers) except gamma-hexachlorocyclohexane (except linande [58-89-9] in medical products)						
465-73-6	Isodrin						
4234-79-1	Kelevane						
143-50-0	Kepone (Chlordecone)						
58-89-9	Lindane						
72-43-5	Methoxychlor						
2385-85-5	Mirex (Finland only)						
72-56-0	Perthane						
82-68-8	Quintozene						
8001-50-1	Strobane						
297-78-9	Telodrin						
8001-35-2	Toxaphene (both Switzerland and Finland)						

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1336-36-3 53469-21-9 and Various	Halogenated biphenyls, including Polychlorinated biphenyl (PCB) (both Switzerland and Finland)						
Various	Halogenated terphenols, including Polychlorinated terphenyl (PCT)						
Various	Halogenated naphthalenes						
Various	Halogenated diarylalkanes						
99688-47-8	Halogenated diphenyl methanes, including Monomethyl-dibromo-diphenyl methane						
81161-70-8	Monomethyl-dichloro-diphenyl methane						
76253-60-6	Monomethyl-tetrachloro-diphenyl methane						
87-86-5	Pentachlorophenol (PCP), its salts and compounds (also South Korea)						
25167-83-3	Tetrachlorophenol (TeCP), its salts and compounds (also South Korea)						
<b>DIOXINS And FURANS</b>							
1746-01-6	Group 1) 2,3,7,8-Tetrachlorodibenzo-p-dioxin	Sum of Group 1:	Germany	German Chemicalienverbots Verordnung (4) Dioxine	US EPA 8290 - (industry practice - not specified by the regulation)		
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1 µg/kg					
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran						
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran						
39227-28-6	Group 2) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Sum of Group 1 & 2:					
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	5 µg/kg					
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin						
57117-41-6	1,2,3,7,8-pentachlorodibenzofuran						
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran						
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran						
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran						
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran						

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35822-46-9	Group 3) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Sum of Group 1, 2 & 3:					
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	100 µg/kg					
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran						
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran						
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran						
50585-41-6	Group 4) 2,3,7,8-Tetrabromodibenzo-p-dioxin	Sum of Group 4:					
109333-34-8	1,2,3,7,8-Pentabromodibenzo-p-dioxin	1 µg/kg					
67933-57-7	2,3,7,8-Tetrabromodibenzofuran						
131166-92-2	2,3,4,7,8-Pentabromodibenzofuran						
107555-93-1 no CAS #'s available	Group 5) 1,2,3,4,7,8-Hexabromodibenzo-p-dioxin 1,2,3,7,8,9-Hexabromodibenzo-p-dioxin 1,2,3,6,7,8-Hexabromodibenzo-p-dioxin 1,2,3,7,8-Pentabromodibenzofuran	Sum of Group 4 & 5: 5 µg/kg					

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<b>ASBESTOS</b>							
77536-66-4 12172-73-5 77536-67-5 12001-29-5 12001-28-4 77536-68-6	Actinolite Amosite Anthrophyllite Chrysotile Crocidolite Tremolite	Not detected	European Union	European Union Council Directive 76/769/EEC and 99/77/EC	Microscopic examination; minimum magnification 1-250, polarized light filter attached; ratio of fiber length to diameter is at least 3:1- (industry practice not specified by the regulation)		

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<b>FLUORINATED GREENHOUSE GASES</b>							
2551-62-4	Sulfur hexafluoride - SF <sub>6</sub>	May Not be Used	European Union	European Union Council Directive 2006/842/EC	Headspace for components (industry practice not specified by the regulation)		
	<i>Hydrofluorocarbons (HFCs):</i>						
75-46-7	HFC-23 - CHF <sub>3</sub>						
75-10-5	HFC-32 - CH <sub>2</sub> F <sub>2</sub>						
593-53-3	HFC-41 - CH <sub>3</sub> F						
138495-42-8	HFC-43-10mee - C <sub>5</sub> H <sub>2</sub> F <sub>10</sub>						
354-33-6	HFC-125 - C <sub>2</sub> HF <sub>5</sub>						
359-35-3	HFC-134 - C <sub>2</sub> H <sub>2</sub> F <sub>4</sub>						
811-97-2	HFC-134a - CH <sub>2</sub> FCF <sub>3</sub>						
75-37-6	HFC-152a - C <sub>2</sub> H <sub>4</sub> F <sub>2</sub>						
430-66-0	HFC-143 - C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>						
420-46-2	HFC-143a - C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>						
431-89-0	HFC-227ea - C <sub>3</sub> HF <sub>7</sub>						
677-56-5	HFC-236cb - CH <sub>2</sub> FCF <sub>2</sub> CF <sub>3</sub>						
431-63-0	HFC-236ea - CHF <sub>2</sub> CHF <sub>2</sub> CF <sub>3</sub>						
690-39-1	HFC-236fa - C <sub>3</sub> H <sub>2</sub> F <sub>6</sub>						
679-86-7	HFC-245ca - C <sub>3</sub> H <sub>3</sub> F <sub>5</sub>						
460-73-1	HFC-245fa - CHF <sub>2</sub> CH <sub>2</sub> CF <sub>3</sub>						
406-58-6	HFC-365mfc - CF <sub>3</sub> CH <sub>2</sub> CF <sub>2</sub> CH <sub>3</sub>						

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	<i>Perfluorocarbons (PFCs):</i>						
75-73-0	Perfluoromethane - CF <sub>4</sub>						
76-16-4	Perfluoroethane - C <sub>2</sub> F <sub>6</sub>						
76-19-7	Perfluoropropane - C <sub>3</sub> F <sub>8</sub>						
355-25-9	Perfluorobutane - C <sub>4</sub> F <sub>10</sub>						
678-26-2	Perfluoropentane - C <sub>5</sub> F <sub>12</sub>						
355-42-0	Perfluorohexane - C <sub>6</sub> F <sub>14</sub>						
115-25-3	Perfluorocyclobutane - c-C <sub>4</sub> F <sub>8</sub>						

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<b>FLAME RETARDANTS</b>							
85535-84-8	Chlorinated paraffins (C10-C13)	May not be used	European Union	European Union Directive 2002/45/EC of the European Parliament: relating to restrictions on the marketing and use of certain dangerous substances and preparations	Solvent extraction and GC-MS or LC-MS (industry practice - not specified by the regulation)	South Korea	This chemical may also be present in leather and should not exceed 1% for fat liquoring of leather
59536-65-1	Polybrominated biphenyls (PBBs)	May not be used	European Union	European Union Directive 76/769/EEC on restrictions on the marketing and use of certain dangerous substances and preparations. European Directive 83/264/EEC	Methanol extraction: analysis by GC-MS or LC-MS (industry practice not specified by the regulation)	Turkey, Switzerland, Canada, and South Korea	South Korea requirement applicable only to bedclothes and nightclothes among underwear.
32534-81-9	Penta-bromodiphenyl ether (pentaBDE)	May not be used	European Union	European Union Directive 2003/11/EC of the European Parliament: relating to restrictions on the marketing and use of certain dangerous substances and preparations (PBDE and OBDE).	Solvent extraction and analysis by GC-MS or LC-MS (industry practice not specified by the regulation)	United States, Switzerland, and South Korea	South Korea requirement applicable only to bedclothes and nightclothes among underwear.
32536-52-0	Octa-bromodiphenyl ether (octaBDE)						

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126-72-7	Tris (2,3-dibromopropyl) phosphate (TRIS)	Not Detected	European Union	European Union Directive 76/769/EEC on restrictions on the marketing and use of certain dangerous substances and preparations.	Methanol extraction and analysis by LC-MS or GC-MS (industry practice not specified by the regulation)	Turkey, Switzerland, Japan, and South Korea	South Korea requirement applicable only to bedclothes and nightclothes among underwear.
5412-25-9	Bis (2,3-dibromopropyl) phosphate	Not Detected	Japan	Japanese law for the control of household products containing harmful substances; Law no. 112, October 12, 1973. Partially amended in 1978 and 1981	Solvent extraction and analysis by GC-MS or LC-MS (industry practice not specified by the regulation)		
545-55-1	Tris (1-aziridinyl)-phosphine oxide (TEPA)	Not Detected	European Union	European Union Directive 76/769/EEC on restrictions on the marketing and use of certain dangerous substances and preparations. European Union Directive 83/264/EEC	KOH or NaOH digestion followed by GC-MS headspace analysis for ethyleneimine (industry practice not specified by the regulation)	Switzerland, Turkey, Japan, and South Korea	
1163-19-5	Decabromodiphenyl ether (DecaBDE)	0.1% by weight	Sweden	Swedish Legislation			

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<b>METALS</b>							
<b>Restrictions for textiles</b>							
7440-43-9	Cadmium (Cd)	100 ppm	Netherlands	Cadmium Decree of the Netherlands	Total Digestion	UK	If Cadmium is used as a coloring agent
7439-92-1	Lead (Pb)	100 ppm	Denmark	Danish statutory order no. 1012 of November 13, 2000 on the Prohibition, Sale, Import, and Manufacture of Lead and Products Containing Lead	Total Digestion (industry practice - not specified by the regulation)		
18540-29-9	Chromium (Cr+6) - hexavalent	Not Detected (below detection limits - see test method)	Germany	German Food and Commodities Law § 30	DIN 53314; C18 filtration and re-analysis of all positive results [limit is 3 ppm] BS EN420 CEN/TS 14495		
<b>Restrictions for Leather</b>							
7440-43-9	Cadmium (Cd)	100 ppm	Netherlands	Cadmium Decree of the Netherlands	Total Digestion	UK	If Cadmium is used as a coloring agent
7439-92-1	Lead (Pb)	100 ppm	Denmark	Danish statutory order no. 1012 of November 13, 2000 on the Prohibition, Sale, Import, and Manufacture of Lead and Products Containing Lead	Total Digestion (industry practice - not specified by the regulation)		
18540-29-9	Chromium (Cr+6) - hexavalent	Not Detected (below detection limits - see test method)	Germany	German Food and Commodities Law § 30	DIN 53314; C18 filtration and re-analysis of all positive results (for leather) [limit is 3 ppm] BS EN420 CEN/TS 14495		

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<b>Restrictions for Metal Parts</b>							
7439-92-1	Lead (Pb)	100 ppm	Denmark	Danish statutory order no. 1012 of November 13, 2000 on the Prohibition, Sale, Import, and Manufacture of Lead and Products Containing Lead	Total Digestion (industry practice - not specified by the regulation)		
7440-02-0	Nickel (Ni) (in metal items)	0.5 µg/cm <sup>2</sup> /week	European Union	European Union Directive 94/27/EC of the European Parliament: relating to restrictions on the marketing and use of certain dangerous substance and preparations and European Union Directive 2004/96/EEC	Nickel release by EN 1811 Abrasion of coated items by EN 12472		
<b>Restrictions for Plastics, Plastic Film, Surface Coatings and Printing</b>							
7439-92-1	Lead (Pb)	100 ppm	Denmark	Danish statutory order no. 1012 of November 13, 2000 on the Prohibition, Sale, Import, and Manufacture of Lead and Products Containing Lead	Total Digestion (industry practice - not specified by the regulation)		
7440-43-9	Cadmium (Cd)	100 ppm	European Union	European Union Directive 91/338/EC	EN 1122 (industry practice - not specified by the regulation)		

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<b>ORGANOTIN COMPOUNDS</b>							
56573-85-4	Tributyltin (TBT)	Not Detected (0.5 ppm EACH)	Japan	Japanese law for the control of household products containing harmful substances (Law no. 112)	Performance-based method of ethanol extraction derivitization and analysis by GC-MS or LC-MS ISO 17353-2004- (industry practice not specified by the regulation)	TBT - South Korea	South Korea also regulates TBT for baby clothing (less than 24 months), for bedclothes, and products that come into skin contact.
668-34-8	Triphenyltin (TPhT)						
1002-53-5	Dibutyltin (DBT)	1 ppm	South Korea	Self Regulatory Confirmation Notice (Notice No. 2007-34) issued by Korean Agency for Technology and Standards			Applies to baby clothing only (less than 24 months).

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<b>MISCELLANEOUS CHEMICALS</b>							
50-00-0	Formaldehyde 0-36 months old	Not Detected (below detection limits - see test method)	Japan	Japanese Law 112	ISO 14184-1 or JIS L1041 (Law 112) or DIN 53315 [detection limit is 20 mg/kg]	Poland, China, Russia, Finland, Norway, France, Netherlands, Austria, Lithuania, Germany, New Zealand, South Korea	Poland defines baby products as 0-36 months, other countries including Japan, South Korea, and China define baby products as 0-24 months. South Korea also regulates bedclothes with a limit of 300 ppm.
	>36 months old (with direct skin contact)	75 ppm	Japan	Japanese Law 112	ISO 14184-1 or JIS L1041 (Law 112) or DIN 53315 [detection limit is 20 mg/kg]		
	>36 months old (no direct skin contact)	300 ppm	See other countries		ISO 14184-1 or JIS L1041 (Law 112) or DIN 53315 [detection limit is 20 mg/kg]		
2795-39-3	Perfluorooctane sulfonate (PFOS)	1 µg/m <sup>2</sup>	European Union	EU Directive 2006/122/EC amending for the thirtieth time 76/769/EEC	Solvent Extraction LC-MS - (industry practice - not specified by the regulation)	Canada	The Canadian Environmental Protection Act, 1999 (CEPA 1999), Registration SOR 2008/178 prohibits the manufacture, use, sale, offer for sale and import of PFOS, as well as products containing PFOS, but does not specify limit.
	<i>Phthalates</i>	0.1%	South Korea	Self Regulatory Confirmation Notice (Notice No. 2007-34) issued by Korean Agency for Technology and Standards			Applies to baby clothing (less than 24 months).
117-81-7	Di(ethylhexyl) phthalate (DEHP)						
117-84-0	Di-n-octyl phthalate (DNOP)						
85-68-7	Butyl benzyl phthalate (BBP)						
84-74-2	Dibutyl phthalate (DBP)						