american apparel & footwear association

we wear® intelligence

restricted substances list (RSL)

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* Appendix I lists regulations which have a reporting requirement that are not necessarily otherwise listed in the RSL.
† Appendix II lists regulations which have a labeling requirement that are not necessarily otherwise listed in the RSL.
‡ Appendix II lists non-regulated substances on the AFIRM RSL Guidance which do not otherwise appear in the AAFA RSL.

Introduction

This Restricted Substance List (RSL) was created by a special working group of the American Apparel & Footwear Association's (AAFA) Environmental Task Force. The RSL is intended to provide apparel and footwear companies with information related to regulations and laws that restrict or ban certain chemicals and substances in finished home textile, apparel, and footwear products around the world.

It is our hope that this RSL will serve as a practical tool to help those individuals in textile, apparel and footwear companies, and their suppliers, responsible for environmental compliance throughout the supply chain, to become more aware of various national regulations governing the amount of substances that are permitted in finished home textile, apparel and footwear products.

Our effort is to create a dynamic and useful instrument. The RSL will be updated on a regular basis and will be supplemented with additional resources to help officials in these companies undertake responsible chemical management practices in the aforementioned finished products.

Methodology

The RSL includes only those materials, chemicals, and substances that are restricted or banned in finished home textile, apparel, and footwear products because of a regulation or law. In each case, the RSL identifies the most restrictive regulation.

The RSL does not include regulations that restrict the use of substances in production processes or in the factory; rather the focus is on whether or not the substance can be found in finished home textile, apparel, and footwear products at a certain level.

A. Structure

For each substance the RSL identifies the following features:

1. CAS number
2. Common chemical or color name
3. Information on the Restriction/Limit on Final Product or Tested Component
    a. Restriction Level
    b. Country where that Restriction/Limit is found
    c. Test Method (where no test method is stipulated in the regulation, the GAFTI column may suggest one)
    d. Other countries that maintain equal or less restrictions
    e. Comments (if applicable)

B. What is Included and What is Not

The RSL is not intended to address product safety regulations outside the chemical management area – such as Consumer Product Safety Commission (CPSC) regulations related to small parts. Moreover, it is not structured to cover toys, automotive textiles, or other industrial textiles. This list does not include restrictions related to use of substances in packaging or related materials.

The following legislation is not listed because there are not regulatory concentration limits but may warrant evaluation for applicability.

1. The US EPA, following the Montreal Protocols, promulgated legislation on ozone depleting compounds. Class I and Class II listed chemicals used in the process of manufacturing of product or packaging requires special labeling as detailed in the regulation. Residuals of the chemical components in the product or package are not necessary to trigger the requirement. Minor usage in textiles as a spot cleaner is acceptable.
2. California Proposition 65 requires a “clear and reasonable” warning label for all products sold in the state of California containing one or more chemicals known to the state to cause cancer or reproductive toxicity. Labeling requirements

are dependent on consumer exposure to the chemical (measured in micrograms (µg)/day) not the concentration in the product. To comply with the law, manufacturers must either ensure that consumer exposure to regulated chemicals in their products do not exceed the established safe harbor levels or label their products. For more information on California Proposition 65, please visit our website at www.apparelandfootwear.org/LegislativeTradeNews/category.asp?SUBCATEGORY_ID=49.

3. For more information on other non-regulated chemicals AAFA has developed a separate tool based on the work done by the AFIRM group. This tool can be found on our website (https://www.wewear.org/assets/1/7/103112NonRegulatedRSL.pdf) and includes chemicals that are neither regulated nor proven to be dangerous, but may be of note to the industry.

C. Technical Notes

1. Chemical nomenclature can take several forms. Technical chemical names may take numerous forms. It is the responsibility of the user to verify synonyms of any regulated chemicals referenced.
2. It is possible that regulated components may be present in raw materials below the levels that require reporting on Material Safety Data Sheets (MSDS). Care should be taken to verify the presence of all regulated ingredients regardless of the concentration.
3. This list represents the known and applicable standards at the time of publication; any inaccuracy or omission is not the responsibility of AAFA.
4. Test methods noted in blue are the GAFTI recommended test methods.

D. GAFTI Comments

1. The members of the Global Apparel, Footwear and Textile Initiative (GAFTI) have collaboratively produced recommended test methods for certain chemicals in cases where the test method is not stipulated by the regulation. This is an ongoing process, and test methods will continue to be added in subsequent releases of the RSL.

About GAFTI

Global Apparel, Footwear and Textile Initiative is an initiative to bring retailers, brands, mills and factories together to improve efficiencies and set standards globally.

Because there is no single source of standards, there is a lack of standardization in the apparel, textile, and footwear industry. This gap creates conflicting requirements across customers.

GAFTI's goal is to reduce complexity and remove costs from common industry practices and prevent increased scrutiny from press and governments, which could lead to increased regulation.

For more information see: www.GAFTI.org

About AAFA

The American Apparel & Footwear Association (AAFA) is the national trade association representing apparel, footwear and other sewn products companies, and their suppliers, which compete in the global market. AAFA's mission is to promote and enhance its members' competitiveness, productivity and profitability in the global market by minimizing regulatory, commercial, political, and trade restraints.

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Arylamines[§]

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
60-09-3	4-Amino azobenze	Reported as not detected. **China restriction limit:** Textiles 20ppm Leather 30ppm **EU restriction limit:** Textiles and Leather: 30ppm	EU and China	Regulations below apply to all Arylamines listed in this RSL European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Textiles (EU): EN 14362-1 :2012 Leather (EU): EN ISO 17234-1: 2010 Test methods specific for 4-Aminoazobenzene confirmation: ◦LFGB 82.02-9 EN ISO 17234-2:2011 ◦EN 14362 - 3:2012 ◦GB/T 23344-2009 (pAAB) confirmation	South Korea (KC Mark, for more information review Appendix II), and Indonesia Vietnam temporary regulation Circular No. 32/2009/TT-BCT Switzerland, Norway, and Taiwan Indonesia: No.72/M-IND/PER/7/2012 SNI7617:2010		
97-56-3	*o*-Aminoazotoluene							
92-67-1	4-Aminodiphenyl							
99-55-8	2-Amino-4-nitrotoluene							
90-04-0	*o*-Anisidine							

[§] AZO Dyes which, by reductive cleavage of one or more AZO groups, may release one or more of the following aromatic amines

92-87-5	Benzidine							
106-47-8	*p*-Chloroaniline							
95-69-2	4-Chloro-*o*-toluidine			The National Standard of the People's Republic of China GB18401-2010	Textiles (China) GB/T 17592-2011	Egypt: ES 7266-4/2011 ES 7322/2011		
120-71-8	*p*-Cresidine							
615-05-4	2,4-Diaminoanisole					Taiwan: CNS 15290 CNS 15503 (children products) CNS 8634 (leather casual shoes) CNS 10632 (leather shoes)		
101-77-9	4,4'-Diaminodiphenylmethane							
91-94-1	3,3'-Dichlorobenzidine			The National Standard of the People's Republic of China GB20400-2006-Leather and Fur	Leather and fur (China) GB/T 19942-2005			
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	o-Toluidine							
137-17-7	2,4,5-Trimethylaniline							
95-68-1	2,4-Xylidine (China only)							
87-62-7	2,6-Xylidine (China only)							

Disperse Dyes

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
2475-45-8	Disperse Blue 1	Not Detected (below detection limits - see test method)	Germany	German Food, Feed and Commodities Law §30 (LFGB §30)	§64 LFGB B82.02-10 DIN 54231	South Korea (applicable to babywear, childrenwear and adult underwear),		
12222-75-2	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 37/59/76							
2872-52-8	Disperse Red 1							
2832-40-8	Disperse Yellow 3							
3761-53-3	Acid Red 26	Prohibited	Egypt	ES 7266-4/2011	DIN 54231 / §64 LFGB 82.02-10			
569-61-9	Basic Red 9							
632-99-5	Basic Violet 14							
2602-46-2	Direct Blue 6							
1937-37-7	Direct Black 38							
573-58-0	Direct Red 28							
2475-45-8	Disperse Blue 1							
82-28-0	Disperse Orange 11							
2832-40-8	Disperse Yellow 3							

Solvents

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
76-01-7	Pentachloroethane	0.1% (mass)-Each	EU and Japan	Germany - Chemikalien verbot 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)	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies to substances and mixtures) Regulation (EC) No. 1005/2009 Denmark		
56-23-5	Carbon Tetrachloride							
71-55-6	1,1,1-Trichloroethane							
630-20-6	1,1,1,2-Tetrachloroethane					European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies to substances and mixtures)		
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							
79-01-6	Trichloroethylene (Japan only)							
127-18-4	Tetrachloroethylene (Japan only)							
	Chlorinated Solvents	≤20 g/m^2	China	GB 21550-2008 (PVC artificial leather)	GB 21550 Clause 5.5			

Pesticides

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds	Not Dectected	Switzerland and Finland (those pesticides without indication are regulated under	ChemRRV (Chemikalien-Risikoreduktions-Verordnung) Art. 3 Appendix 1.1 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		Switzerland only)					
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) (both Switzerland 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	Prohibited	Canada	Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)		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	Prohibited	Canada	Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)		Finland		
2385-85-5	Mirex							
72-56-0	Perthane							
82-68-8	Quintozene							
8001-50-1	Strobane							
297-78-9	Telodrin							

8001-35-2	Toxaphene (both Switzerland and Finland)	Prohibited	Canada	Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)				
1336-36-3 53469-21-9 and Various	Halogenated biphenyls, including Polycholorinated biphenyl (PCB) (both Switzerland and Finland)							
Various	Halogenated terphenols, including Polychlorinated terphenyl (PCT)							
Various	Halogenated naphthalenes							
Various	Halogenated diarylalkanes							
	Halogenated diphenyl methanes, including							
99688-47-8	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	1 mg/kg (textile) < 1 mg/kg (leather) 5 mg/kg (wood in footwear)	Egypt	ES 6535/2008 ES 7322/2011 ES 3571/2006 ES 3572/2006	XP-G08 015 (textile) ISO 17070 (leather) EN/TR 14823 (wood)	South Korea, Germany, Denmark, and the Netherlands		
25167-83-3	Tetrachlorophenol (TeCP), its salts and compounds					South Korea		

624-49-7	Dimethyl Fumarate	Prohibited	Spain, Belgium	Spain (1229 Resolution of 22 December 2008) Belgium: The Minister for Public Health and the Minister for Consumer Protection, The Minister for Public Health and the Minister for Consumer Protection, Ministerial Decree concerning the prohibition of placing articles and products containing DMF on the market. Belgian Official Journal , 12.1.2009		◦European Union REACH regulation (EC) No. 1907/2006 Annex XVII, limit 0.1 mg/kg ◦South Korea (KC Mark, for more information review Appendix II), Norway, and Taiwan	Spain (Footwear), Belgium (Articles and Products), EU (Products), France: Are suspended for one year the importation and marketing for free or expensive, seats and footwear containing dimethyl fumarate (EC number: 210-849-0).	

Asbestos

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
77536-66-4	Actinolite	Not detected	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Microscopic examination; minimum magnification1-250, attached; ratio of fiber length to diameter is at polarized light filter least 3:1-(industry practice - not specified by the regulation)	Switzerland and Norway		
12172-73-5	Amosite							
77536-67-5	Anthrophyllite							
12001-29-5	Chrysotile							
12001-28-4	Crocidolite							
77536-68-6	Tremolite							

Fluorinated Greenhouse Gases

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
2551-62-4	Sulfur hexafluoride - SF_6	Prohibited	European Union	European Union - - Regulation (EC) No. 842/2006	Headspace for components (industry practice - not specified by the regulation			
	Hydrofluorocarbons (HFCs):							
75-46-7	HFC-23 - CHF_3							
75-10-5	HFC-32 - CH_2F_2							
593-53-3	HFC-41 - CH_3F							
138495-42-8	HFC-43-10mee - $C_5H_2F_{10}$							
354-33-6	HFC-125 - C_2HF_5							
359-35-3	HFC-134 - $C_2H_2F_4$							
811-97-2	HFC-134a - CH_2FCF_3							
75-37-6	HFC-152a - $C_2H_4F_2$							
430-66-0	HFC-143 - $C_2H_3F_3$							
420-46-2	HFC-143a - $C_2H_3F_3$							
431-89-0	HFC-227ea - C_3HF_7							
677-56-5	HFC-236cb - $CH_2FCF_2CF_3$							
431-63-0	HFC-236ea - CHF_2CHFCF_3							
690-39-1	HFC-236fa - $C_3H_2F_6$							
679-86-7	HFC-245ca - $C_3H_3F_5$							

460-73-1	HFC-245fa - $CHF_2CH_2CF_3$							
406-58-6	HFC-365mfc - $CF_3CH_2CF_2CH_3$							
	Perfluorocarbons (PFCs):							
75-73-0	Perfluoromethane - CF_4							
76-16-4	Perfluoroethane - C_2F_6							
76-19-7	Perfluoropropane - C_3F_8							
355-25-9	Perfluorobutane - C_4F_{10}							
678-26-2	Perfluoropentane - C_5F_{12}							
355-42-0	Perfluorohexane - C_6F_{14}							
115-25-3	Perfluorocyclobutane - c-C_4F_8							

Dioxins & Furans

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
1746-01-6 40321-76-4 51207-31-9 57117-31-4	Group 1) 2,3,7,8-Tetrachlorodibenzo-p-dioxin 1,2,3,7,8-Pentachlorodibenzo-p-dioxin 2,3,7,8-Tetrachlorodibenzofuran 2,3,4,7,8-Pentachlorodibenzofuran	Sum of Group 1: 1 µg/kg	Germany	German Chemicalienverbots Verordnung (4) Dioxine	US EPA 8290 - (industry practice - not specified by the regulation)			
39227-28-6 19408-74-3 57653-85-7 57117-41-6 70648-26-9	Group 2) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,7,8-pentachlorodibenzofuran 1,2,3,4,7,8-Hexachlorodibenzofuran	Sum of Group 1 & 2: 5 µg/kg						

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							
	Group 3)	Sum of Group 1, 2 & 3:						
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	100 µg/kg						
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin							
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							
	Group 4)	Sum of Group 4:						
50585-41-6	2,3,7,8-Tetrabromodibenzo-p-dioxin	1 µg/kg						
109333-34-8	1,2,3,7,8-Pentabromodibenzo-p-dioxin							
67733-57-7	2,3,7,8-Tetrabromodibenzofuran							
131166-92-2	2,3,4,7,8-Pentabromodibenzofuran							
	Group 5)	Sum of Group 4 & 5:						
110999-44-5	1,2,3,4,7,8-Hexabromodibenzo-p-dioxin	5 µg/kg						
110999-46-7	1,2,3,7,8,9-							

110999-45-6	Hexabromodibenzo-p-dioxin 1,2,3,6,7,8-Hexabromodibenzo-p-dioxin							
107555-93-1	1,2,3,7,8-Pentabromodibenzofuran							

Flame Retardants

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
85535-84-8	Chlorinated paraffins (C10-C13)	Prohibited	European Union	POPs Regulation (EC) No. 850/2004, Annex I	Solvent extraction and GC-MS or LC-MS (industry practice - not specified by the regulation)	South Korea, and Canada	REACH: This chemical should not exceed 1% for fat liquoring of leather for REACH. POPs: Articles should not contain SCCPs that were placed on the market after January 10, 2013	
59536-65-1	Polybrominated biphenyls (PBBs)	Prohibited	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Methanol extraction: analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)	Turkey, Switzerland, Canada, US, South Korea, and Egypt	South Korea requirement applicable only to bedclothes and nightclothes among underwear. [applicable to textile products for	

							babies, children and adult, and textile bedding]	
32534-81-9	Penta-bromodiphenyl ether (pentaBDE)	Prohibited	European Union	European Union POPs Regulation (EC) No. 850/2004, Annex I	Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)	United States, Switzerland, and South Korea (KC Mark, for more information review Appendix II)	South Korea requirement applicable only to bedclothes and nightclothes among underwear. [applicable to textile products for babies, children and adult, and textile bedding]	
32536-52-0	Octa-bromodiphenyl ether (octaBDE)			European Union REACH Regulation (EC) No. 1907/2006 Annex XVII				
126-72-7	Tris (2,3-dibromopropyl) phosphate (TRIS)	Prohibited	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Methanol extraction and analysis by LC-MS or GC-MS (industry practice - not specified by the regulation)	Turkey, Switzerland, Japan, U.S., Egypt, and South Korea (KC Mark, for more information review Appendix II)	South Korea requirement applicable only to bedclothes and nightclothes among underwear. [applicable to textile products for babies, children and adult, and textile bedding.] US requirement	

							applicable to sleepwear.	
5412-25-9	Bis (2,3-dibromopropyl) phosphate	Prohibited	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)	Prohibited	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	KOH or NaOH digestion followed by GC-MS headspace analysis for ethyleneimine (industry practice - not specified by the regulation)	Switzerland, Turkey, Japan, South Korea, and Egypt		
1163-19-5	Decabromodiphenyl ether (DecaBDE)	0.1% by weight	Oregon (United States)	SB 596				
115-96-8	Tris(2-chloroethyl) phosphate (TCEP)	May not be used	New York (United States)	A6195/	Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)		European Union REACH Regulation (EC) No. 1907/2006 Candidate List	

Metals

Restrictions for Textiles

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU	For all textile products and textile accessories	
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)	U.S., and Egypt	CPSC determined textiles can be assumed automatically compliant with U.S. lead regulation. Determination does not include post-production prints and surface coatings.	Extractable Content: EN 71.3 (also GB/T17593 for China) Total Content: CPSC-CH-E1002-08.1 (http://www.gafti.org/template?series=4&article=11)
		90 PPM	Korea	Korea Certification Mark (KC Mark, for more information review Appendix II)		Taiwan	Applies to textile products for children. (0 - 12 years)	
		0.2 ppm (leachable)	China	FZ/T 81014-2008 (Textile Industry Standard of the People's Republic of China ISC 61.020 Y76)	GB/T 17593.1 Textiles-Determination of heavy metals Part 1: Atomic		Applies to infant wear (<36 months) only. Infant's wear defined as mainly	

				effective October 1, 2008.	absorption spectrophoto metry		made of textiles and woven fabrics as well as infant's adornment products.	
7440-47-3	Chromium	1.0 ppm (leachable)	China	China FZ/T 81014-2008 (Textile Industry Standard of the People's Republic of China ISC 61.020 Y76) effective October 1, 2008.	GB/T 17593.1 Textiles-Determination of heavy metals Part 1: Atomic absorption spectrophoto metry		Applies to infant wear (<36 months) only. Infant's wear defined as mainly made of textiles and woven fabrics as well as infant's adornment products.	
7439-97-6	Mercury	0.02 ppm (leachable)	China	FZ/T 81014-2008 (Textile Industry Standard of the People's Republic of China ISC 61.020 Y76) effective October 1, 2008.	GB/T 17593.4 Textiles-Determination of heavy metals Part 4: Determination of tear force of tongue-shaped test specimens		Applies to infant wear (<36 months) only. Infant's wear defined as mainly made of textiles and woven fabrics as well as infant's adornment products.	
7440-38-2	Arsenic	0.2 ppm (leachable)	China	FZ/T 81014-2008 (Textile Industry Standard of the People's Republic of China ISC 61.020 Y76) effective October 1, 2008.	GB/T 17593.4 Textiles-Determination of heavy metals Part 4: Determination of tear force of tongue-shaped test		Applies to infant wear (<36 months) only. Infant's wear defined as mainly made of textiles and woven fabrics	

					specimens		as well as infant's adornment products.	
7440-50-8	Copper	25 ppm (leachable)	China	FZ/T 81014-2008 (Textile Industry Standard of the People's Republic of China ISC 61.020 Y76) effective October 1, 2008.	GB/T 17593.1 Textiles-Determination of heavy metals Part 1: Atomic absorption spectrophoto metry		Applies to infant wear (<36 months) only. Infant's wear defined as mainly made of textiles and woven fabrics as well as infant's adornment products.	

Restrictions for Leather

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU, Egypt, and South Korea	For all textile products and textile accessories	
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)	U.S.	U.S. federal lead substrate restrictions for each component in children's products (12 years and under). After August 14, 2011 the level dropped to 100 ppm. CPSC determined leather can be assumed automatically compliant with U.S. lead regulation. Determination does not include finishes and surface coatings.	Extractable Content: EN71.3 Total Content: CPSC-CH-E1002-08.1 (http://www.gafti.org/template?series=4&article=11)

18540-29-9	Chromium (Cr 6+) - hexavalent	Not Detected (detection limit is 3 ppm)	Germany	Eighteenth Regulation on the Amendment of the German Ordinance on Commodities of 3rd August 2010	§ 64 LFGB 82.02 - 11(2008) ISO 17075	South Korea, Taiwan, and Egypt		

Restrictions for Metal Parts

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
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)	U.S., Egypt, and South Korea	U.S. federal lead substrate restrictions for each component in children's products (12 years and under). After August 14, 2011 the level dropped to 100 ppm.	Extractable Content: EN71.3 Total Content: CPSC-CH-E1001-08.1 (http://www.gafti.org/template?series=4&article=11)
7440-02-0	Nickel (Ni) (in metal items)	0.5 µg/cm^2/week	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Nickel release by EN 1811:2011	Egypt	Restriction only applicable in cases where there is direct and prolonged contact with skin.	
7440-43-9	Cadmium	Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU, Egypt, and South Korea	For all textile products and textile accessories	

Restrictions for Plastics and Plastic Film

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
7439-92-1	Lead (Pb)	100ppm	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) Self_	U.S. South Korea (plastic trims for baby and children wear: 90 ppm), and Egypt	U.S. federal lead substrate restrictions for each component in children's products (12 years and under). After August 14, 2011 the level dropped to 100 ppm.	Extractable Content: EN71.3 Total Content: CPSC-CH-E1002-08.1
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	Egypt, South Korea, and the EU	For all textile products and textile accessories	

Restrictions for Surface Coatings and Printing

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
7439-92-1	Lead (Pb)	90 ppm	United States	16 C.F.R. §1303 – Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint	CPSC-CH-E1003-09.1 ASTM F2853-10	Argentina, Canada, Taiwan, South Korea (baby and children wear: 90 ppm), Denmark (100 ppm applies to all products), and Egypt	U.S. federal lead in paint rules for children 12 and under set at 90 ppm for goods made on or after August 14, 2009. Argentina: Resolution 7/2009 established a restriction on lead content in paints, lacquers and varnishes. Lead restriction set to 600 ppm and applies to paints, lacquers and varnishes defined as 'fulids, semi-fluids or solids with or without pigments which change	Extractable Content: ASTM F963 Total Content: CPSC-CH-E1003-09.1 (http://www.gafti.org/template?series=4&article=11)

							to a solid film after their application in thin layers on metal, wood, stone, paper, leather, fabric, plastic or other materials.'	
7440-43-9	Cadmium (Cd) Prohibited	Prohibited	Taiwan	CNS 15290	CNS 4797-2	Egypt, South Korea, and the EU	For all textile products and textile accessories	

Soluble Heavy Metals

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method
	China PVC artificial leather	Lead: 90 mg/kg	China	GB 21550-2008	GB 21550 Clause 5.4
		Cadmium: 75 mg/kg			
	Egypt children less than 36 months footwear, size 26 and less Taiwan Children products up to age 14	Antimony: 60 mg/kg	Egypt	ES 7322/2011	EN 71-3
		Arsenic: 25 mg/kg			
		Barium: 1000 mg/kg	Taiwan	CNS 15503 (children's product)	CNS 4797-2
		Cadmium: 75 mg/kg			
		Chromium: 60 mg/kg			
		Lead: 90 mg/kg			
		Mercury: 60 mg/kg			
		Selenium: 500 mg/kg			

Organotin Compounds

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	GAFTI Recomended Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
56573-85-4	Tributyltin (TBT)	Prohibited	Canada	Prohibition of Certain Substances Regulation, 2012 (SOR/2012-285)			Japan, the EU, South Korea (KC Mark, for more information review Appendix II), and Taiwan	◦South Korea also regulates TBT for baby clothing (less than 24 months), for bedclothes, and products that come into skin contact. ◦European Union, all tri-substituted organotin are restricted ◦Taiwan test method: NIEA T504.30B	
668-34-8	Triphenyltin (TPhT)						Taiwan	Taiwan NIEA T504.30B	

1002-53-5	Dibutyltin (DBT)	1 ppm For EU, 0.1% by weight of tin	South Korea, and the EU	◦Self-Regulatory Confirmation Notice (Notice No. 2007-34) issued by Korean Agency for Technology and Standards ◦European Union REACH Regulation (EC) No. 1907/2006 Annex XVII				Applies to baby clothing only (less than 24 months).	
15231-44-4	Dioctyltin (DOT)	0.1% by weight of tin	EU	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII					

Misc. Chemicals

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
50-00-0	Formaldehyde 0-36 months old	Not Detected (detection limit is 20 mg/kg) (textiles)	Japan	Japanese Law 112	ISO 17226 (leather) or JIS L1041 (Law 112) (textiles) China GB/T 2912.1	Poland, China, Russia, Finland, Norway, France, Netherlands, Austria, Lithuania, Germany, New Zealand, South Korea, Vietnam, Taiwan, Egypt, and Indonesia	Poland and Vietnam define baby products as 0-36 months old. Japan, South Korea, Taiwan, and China define baby products as 0-24 months. South Korea also regulates bed clothes with a limit of 300 ppm. Taiwan regulates indoor decorative textile with a limit of 300 ppm	
	>36 months old (with direct skin contact)	75 ppm (detection limit is 20 mg/kg) (textiles)	Japan	Japanese Law 112	ISO 17226 (leather) or JIS L1041 (Law 112) (textiles) China GB/T 2912.1			
	>36 months old (no direct skin contact)	300 ppm (detection limit is 20 mg/kg) (textiles)	See other countries		ISO 17226 (leather) or JIS L1041 (Law 112) (textiles) China GB/T 2912.1			
50-00-0	Formaldehyde (leather) Baby products (0-24 months)	20 ppm	China	GB20400-2006	GB/T 19941	Japan, EU		
	Leather (with direct skin contact)	75 ppm	China	GB20400-2006	GB/T 19941			
	Leather (without direct skin contact)	300 ppm	China	GB20400-2006	GB/T 19941			

2795-39-3	Perfluorooctane sulfonate (PFOS)	1 µg/m² (textiles or other coated materials) <0.1% for articles	European Union	POPs Regulation (EC) No. 850/2004 Annex I	Solvent Extraction LC-MS - (industry practice - not specified by the regulation)	Canada and Norway, and Egypt	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.	
118685-33-9	Blue Colorant	Prohibited	European Union	European Union REACH Regulation (EC) No 1907/2006 Annex XVII		Norway, and Egypt	For substances and mixtures only	
25154-52-3	Nonyl phenol	1000ppm	European Union	European Union REACH Regulation (EC) No 1907/2006 Annex XVII			For substances and mixtures only	
	Nonyl phenolethoxylates							
	pH value	4.0 - 7.5 (0-36 months) 4.0 - 8.5 (direct skin contact) 4.0 - 9.0 (without direct skin contact)	China	GB 18401-2010	GB/T 7573			
		4.0 - 7.5 (infant, children, innerwear, midwear) 4.0-9.0 (outerwear, bedding) 4.0 - 9.0 (outerwear,	South Korea	KC Mark	KS K ISO 3071 / ISO 3071			

		bedding)						
		not less than 3.5	Egypt	ES 6535/2008	ISO 4045			
75-01-4	Vinyl Chloride Monomer (VCM)	1 mg/kg	Egypt	ES 7322/2011	ISO 6041 / §64 LFGB B80.32-1:1981-11 / 80/766/EC	China		
N-Nitrosamines								
62-75-9	N-Nitrosodimethylamine	Not detected (detection limit: 0.5 mg/kg)	China	GB 25036-2010 GB 25038-2010	GB/T 24153			
55-18-5	N-Nitrosodiethylamine							
621-64-7	N-Nitrosodipropylamine							
924-16-3	N-Nitrosodibutylamine							
100-75-4	N-Nitrosopiperidine							
930-55-2	N-Nitrosopyrrolidine							
59-89-2	N-Nitrosomorpholine							
614-00-6	N-Nitroso-N-methylaniline							
612-64-6	N-Nitroso-N-ethylaniline							
Polycyclic aromatic hydrocarbons (PAH)		Benzo(a)pyrene: 1 mg/kg; Sum of 18 PAH: 10 mg/kg	Taiwan	CNS 3478 (Plastic shoes) CNS 15503 (children products) (up to age 14)	CNS 3478 Clause 6.18			
91-20-3	Naphthalene (Taiwan only)							
208-96-8	Acenaphthylene (Taiwan only)							
83-32-9	Acenaphthene (Taiwan only)							
86-73-7	Fluorene (Taiwan only)		European Union	Draft Regulation amending European Union REACH				
85-01-8	Phenanthrene (Taiwan only)	1 mg/kg (each)						

120-12-7	Anthracene (Taiwan only)			Regulation (EC) No 1907/2006 Annex XVII				
206-44-0	Fluoranthene (Taiwan only)							
129-00-0	Pyrene (Taiwan only)							
56-55-3	Benzo(a)anthracene (Taiwan and EU draft)							
218-01-9	Chrysene (Taiwan and EU draft)							
193-39-5	Indeno(1,2,3-cd)pyrene (Taiwan only)							
205-99-2	Benzo(b)fluoranthene (Taiwan and EU draft)							
207-08-9	Benzo(k)fluoranthene (Taiwan and EU draft)							
50-32-8	Benzo(a)pyrene (Taiwan and EU draft)							
53-70-3	Dibenzo(a,h)anthracene (Taiwan and EU draft)							
191-24-2	Benzo(g,h,i)perylene (Taiwan only)							
192-97-2	Benzo(e)pyrene (EU draft only)							
205-82-3	Benzo(j)fluoranthene (EU draft only)							

Phthalates

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	GAFTI Recomended Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
	Phthalates (Except those listed below)	0.05%	Denmark	Denmark Statutory Order 786				Applies to childcare articles for children 0-3 years old.	
117-81-7	Di (2-ethylhexyl) phthalate (DEHP)	U.S. each phthalates 0.1% For E.U DEHP+DBP+ BBP 0.1% for DINP+	South Korea, U.S., Denmark, and the EU	Self-Regulatory Confirmation Notice (Notice No. 2007-34) issued by Korean Agency for Technology and Standards.	CPSC-CH-C1001-09.3 or GB/T 22048-2008		European Union (European Union REACH Regulation No. 1907/2006 Annex XVII), California (AB1108), Denmark (Statutory Order 786), South Korea (KC Mark, for more information review Appendix II), Egypt, Turkey, and Denmark	In South Korea, applies to baby clothing (less than 24 months). In the U.S., DEHP, DBP and DNOP are restricted in child care articles (3 years and under) that facilitate sleep or feeding. Unclear which footwear and apparel articles are covered. In the EU, DEHP, DBP and BBP are	
117-84-0	Di-n-octyl phthalate (DNOP)								
85-68-7	Benzyl Butyl phthalate (BBP)								
84-74-2	Di-n-butyl phthalate (DBP)								
68515-48-0 28553-12-0	Di-isononyl phthalate (DINP)			U.S. Consumer Product Safety Improvement Act (PL 110-787).					

								restricted for child care articles intended to facilitate sleep, relaxation, hygiene, the feeding of children or sucking on the part of children. Examples: Child bibs, infant sleeping bag	
68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)			Schedule 1 of the Canadian Hazardous Products Act (Phthalates)				In the U.S. and the EU DINP, DIDP and BBP are restricted in toys and child care articles that can be placed in the mouth.	
131-11-3	Dimethyl phthalate (DMP)	0.1% (sum)	Taiwan	CNS 15503 (children's products)					
84-66-2	Diethyl phthalate (DEP)								
84-69-5	Diisobutyl phthalate (DIBP)	0.1% (sum)	Denmark	Executive Order 1113 of 26 October 2012					

68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	0.1% w/w per article (each)	European Union	European Union REACH Regulation (EC) no. 1907/2006 Candidate List					
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)								
117-82-8	Bis(2-methoxyethyl) phthalate (DMEP)								
605-50-5	Diisopentylphthalate (DIPP)								
776297-69-9	N-pentyl-isopentyl phthalate (NPIPP)								
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)								

Glossary of Terms/Acronyms related to the AAFA RSL list

BS—British Standard

CAS—Chemical Abstracts Service. CAS Registry Numbers (often referred to as CAS RNs or CAS Numbers) are unique identifiers for chemical substances. CAS is a division of the American Chemical Society. See www.cas.org.

CEN—European Committee for Standardization

CPSC - Consumer Product Safety Commission. Main U.S. government agency responsible for product safety and for enforcement of CPSIA.

CPSIA - Consumer Product Safety Improvement Act

Detection limit—the lowest quantity of a substance that can be distinguished from the absence of that substance (a blank value) within a stated confidence limit

DIN—German Standards Institute (Deutsches Institut für Normung)

Dioxins and Furans—Chemical compounds that are an undesirable by-product in the manufacture of herbicides, disinfectants, and other agents

EEC—European Economic Community

EN—European Standard

EPA—Environmental Protection Agency (U.S.)

EU—European Union

GB—Guo Biao in Chinese which means National Standards

GC-MS—Gas Chromatography/Mass Spectrometer - instrument used to identify components of mixtures or unknown substances - liquids, gases.

ISO—International Organization for Standardization

JIS—Japanese Industrial Standard

KOH—Potassium Hydroxide

LFGB—Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch – German Law Book on food, consumer article and feed.

LC-MS—Liquid Chromatography/Mass Spectrometer - instrument used to identify components of mixtures or unknown substances - liquids, gases.

mg/L—milligram per liter.

mg/kg—milligram per kilogram.

MSDS Information—Material Safety Data Sheet Information – this is chemical safety & toxicological information supplied with chemicals

NaOH—Sodium Hydroxide

Percent by Mass—also called weight percent or percent by weight, this is the mass of the solute divided by the total mass of the solution and multiplied by 100% (also see ppm)

Pesticide—A chemical agent or substance used for destroying pests

ppm—Parts Per Million. A unit describing concentrations of chemical substances. 1 ppm can also be notated as 1 milligram per kilogram (mg/kg) or 1 microgram per gram (µg/g).

ppb—Parts per Billion. A unit describing concentrations of chemical substances. 1 ppb can also be notated as 1 microgram per kilogram (µg/kg).

REACH - Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals. It entered into force on 1st June 2007. It streamlines and improves the former legislative framework on chemicals of the European Union (EU).

Solvent—A substance in which another substance is dissolved, forming a solution.

Test method – A definitive procedure that produces a test result.

UK—United Kingdom

US – United States

µg/cm²/week—microgram per square centimeter per week

µg/g—microgram per gram

µg/kg—microgram per kilogram

µg/m²—microgram per square meter

Appendix I – Reporting

(Regulations which have a reporting requirement that are not necessarily otherwise listed in the RSL)

CAS Number	Chemical Name/Color Index Name	Restriction / Maximum Limit Triggering Reporting in Article	Country	Regulation	Test Method [detection limit] if any	Other Countries/States Which Also Regulate	GAFTI Comments
121-14-2	2,4-Dinitrotoluene	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
101-77-9*	4,4'-Diaminodiphenylmethane (MDA)						
81-15-2*	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)						
79-06-1	Acrylamide						
85535-84-8	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)						
-	Aluminosilicate Refractory Ceramic Fibres						
7789-09-5	Ammonium dichromate						
120-12-7	Anthracene						
90640-80-5	Anthracene oil						
90640-81-6	Anthracene oil, anthracene paste						
91995-15-2	Anthracene oil, anthracene paste, anthracene fraction						
91995-17-4	Anthracene oil, anthracene paste,distn. lights						
90640-82-7	Anthracene oil, anthracene-low						
85-68-7*	Benzyl butyl phthalate (BBP)					Washington (US)	
117-81-7*	Bis (2-ethylhexyl)phthalate (DEHP)						
56-35-9	Bis(tributyltin)oxide (TBTO)						

10043-35-3 / 11113-50-1	Boric acid						
7646-79-9	Cobalt dichloride						
1303-28-2	Diarsenic pentaoxide						
1327-53-3	Diarsenic trioxide						
84-74-2*	Dibutyl phthalate (DBP)					Washington (US)	
84-69-5	Diisobutyl phthalate						
1303-96-4/ 1330-43-4/ 12179-04-3	Disodium tetraborate, anhydrous						
25637-99-4*	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
	Alpha-hexabromocyclododecane						
	Beta-hexabromocyclododecane						
	Gamma-hexabromocyclododecane						
7758-97-6	Lead chromate						
12656-85-8	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)						
7784-40-9	Lead hydrogen arsenate						
1344-37-2	Lead sulfochromate yellow (C.I. Pigment Yellow 34)						
-	Pitch, coal tar, high temp.						
7789-00-6	Potassium chromate						
7778-50-9	Potassium dichromate						
7775-11-3	Sodium chromate						
7789-12-0/ 10588-01-9	Sodium dichromate						
12267-73-1	Tetraboron disodium heptaoxide, hydrate						
79-01-6	Trichloroethylene						
15606-95-8	Triethyl arsenate						
115-96-8	Tris(2-chloroethyl)phosphate					Washington (US)	
Extracted from Index no. 650-	Zirconia Aluminosilicate Refractory Ceramic Fibres						

017-00-8							
110-80-5*	2-Ethoxyethanol					Washington (US)	
109-86-4*	2-Methoxyethanol						
7738-94-5 - 13530-68-2	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid						
1333-82-0	Chromium trioxide						
513-79-1	Cobalt(II) carbonate						
71-48-7	Cobalt(II) diacetate						
10141-05-6	Cobalt(II) dinitrate						
10124-43-3	Cobalt(II) sulphate						
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich						
96-18-4	1,2,3-Trichloropropane						
872-50-4	1-Methyl-2-pyrrolidone						
302-01-2 / 7803-57-8	Hydrazine						
68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters						
6/2/7789	Strontium chromate						
111-15-9	2-Ethoxyethyl acetate						
7778-44-1	Calcium Arsenate	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
111-96-6	Bis(2-methoxyethyl) ether						
11103-86-9	Potassium hydroxyoctaoxodizincate dichromate						
6477-64-1	Lead dipicrate						
127-19-5	N,N Dimethylacetamide (DMAC)						
777839-4	Arsenic acid						
90-04-0	2-methoxyaniline; o-anisidine						
3687-31-8	Trilead diarsenate						

107-06-2	1,2 Dichloroethane						
49663-84-5	Pentazinc chromate octahydroxide						
25214-70-4	Formaldehyde, oligomeric reaction products with aniline (technical MDA)						
117-82-8	Bis(2mthoxyethyl) phthalate						
140-66-9	4-(1,1,3,3, tetramethylbutyl)phenol						
13424-46-9	Lead azide, Lead diazide						
77-09-8	Phenolphthalein						
24613-89-6	Dichromium tris(chromate)						
15245-44-0	Lead Styphnate						
101-14-4	2,2-dichloro-4,4,methylenedianiline						
112-49-2	1,2-bis(2methoxy-ethoxy) ethane (TEGDME; triglyme)	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
110-71-4	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)						
561-41-1	4,4'-bis(dimethylamino)-4'(methyl-amino)trityl alcohol (C.I. Solvent Violet 8)						
90-94-8	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)						
2580-56-5	[4-[4,4'-bis(dimethyl-amino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethyl ammonium chloride (C.I. Basic Blue 26)						
101-61-1	N,N,N',N'-tetramethyl-4,4'methylenedianiline (Michler's base)						
6786-83-0	A,a-bis[4(dimethylamino)phenyl]-4-(phenylamino)naphthalene						

	1-methanol (C.I. Solvent Blue 4)						
1303-86-2	Diboron trioxide						
75-12-7	Formamide						
17570-76-2	Lead(II) bis(methanesulfonate)						
2451-62-9	TGIC (1,3,5,tris(oxiranyl methyl)-1,3 triazine-2,4,6 (1H,3H,5H)trione)						
59653-74-6	b-TGIC (1.3.5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6(1H3H,5H)trione)						
548-62-9	[4-[4,4'-bis(dimethyl-amino)benzhydylidene]cyclohexa-2,5-dien-1-ylidene]dimethyl ammonium chloride (C.I. Basic Violet 3)						
50-00-0	Formaldehyde	5 ppm	United States	Washington Children's Safe Product Act			
62-53-3	Aniline	1 ppm					
62-75-9	N-Nitrosodimethylamine	1 ppm					
71-36-3	n-Butanol	5 ppm					
71-43-2	Benzene	1 ppm					
75-01-4	Vinyl chloride	1 ppm					
75-07-0	Acetaldehyde	1 ppm					
75-09-2	Methylene chloride	1 ppm					
75-15-0	Carbon disulfide	10 ppm					
78-93-3	methyl ethyl ketone	1 ppm					
79-34-5	1,1,2,2,-Tetracholoroethane	1 ppm					
79-94-7	Tetrabromobisphenol A	20 ppm					
80-05-7	Bisphenol A	20 ppm					
84-66-2	Diethyl phthalate	5 ppm					
84-75-3	Di-n-Hexyl phthalate	5 ppm					
85-44-9	Phthalic anhydride	100 ppm					
86-30-6	N-Nitrosodiphenylamine	1 ppm					
87-68-3	Hexachlorobutadiene	30 ppm					
94-13-3	Propyl paraben	30 ppm					
94-26-8	Butyl paraben	30 ppm					

95-53-4	2-Aminotoluene	1 ppm					
95-80-7	2,4-Diaminotoluene	10 ppm					
99-76-3	Methyl paraben	30 ppm					
99-96-7	p-Hydroxybenzoic acid	10 ppm					
100-41-4	Ethylbenzene	1 ppm					
100-42-5	Styrene	1 ppm					
104-40-5	4-Nonylphenol: 4-NP and its isomer mixtures including CAS 84852-15-3 and CAS 25154-52-3	10 ppm					
106-47-8	para-Chloroaniline	60 ppm					
107-13-1	Acrylonitrile	1 ppm					
107-21-1	Ethylene glycol	5 ppm					
108-88-3	Toluene	1 ppm					
108-95-2	Phenol	60 ppm					
117-84-0	Di-n-octyl phthalate (DnOP)	5 ppm					
118-74-1	Hexachlorobenzene	30 ppm					
119-93-7	3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine	10 ppm					
120-47-8	Ethyl paraben	30 ppm					
123-91-1	1,4-Dioxane	1 ppm					
127-18-4	Perchloroethylene	.5 ppm					
131-55-5	Benzophenone-2 (Bp-2): 2,2',4,4'-Tetrahydroxybenzophenone	20 ppm					
140-66-9	4-tert-Octylphenol; 1,1,2,2,-Tetramethyl-4-butylphenol	10 ppm	United States	Washington Children's Safe Product Act			
140-67-0	Estragole	10 ppm					
149-57-5	2-Ethylhexanoic acid	1 ppm					
556-67-2	Octamethycyclotetrasiloxane	10 ppm					
608-93-5	Benzene, pentachloro	1 ppm					
842-07-9	C.I. solvent yellow 14	1 ppm					
872-50-4	N-Methylpyrrolidone	50 ppm					
1163-19-5	2,2',3,3',4,4',5,5',6,6' Decambromodiphenyl ether; BDE-209	10 ppm					
1763-23-1	Perfluorooctanyl sulphonic acid and its salts; PFOS	1 ppm					

1806-26-4	Phenol, 4-octyl-	10 ppm					
5466-77-3	2-Ethyl-hexyl-4-methoxycinnamate	5 ppm					
7439-97-6	Mercury & mercury compounds including methyl mercury (22967-92-6)	.5 ppm					
7439-98-7	Molybdenum & molybdenum compounds	1 ppm					
7440-36-0	Antimony & Antimony compounds	1 ppm					
7440-38-2	Arsenic & Arsenic compounds including arsenic trioxide (1327-53-3) & dimethyl arsenic (75-60-5)	1 ppm					
7440-43-9	Cadmium & cadmium compounds	1 ppm					
7440-48-4	cobalt & cobalt compounds	1 ppm					
25013-16-5	Butylated hydroxyanisole, BHA	10 ppm					
25637-99-4	Hexabromocyclododecane	10 ppm					
26761-40-0	Diisodecyl phthalate (DIDP)	50 ppm					
28553-12-0	Diisononyl phthalate (DINP)	50 ppm					

*These chemicals have been moved to the authorization list under REACH, and sunset dates vary for each chemical.

Note: Reporting may be required under the Children's Safe Product Act depending on why the chemical is present in the children's product and the amount present.

Appendix II – Labeling

(Regulations which have a labeling requirement that are not necessarily otherwise listed in the RSL)

CAS Number	Chemical Name/Color Index Name	Restriction / Maximum Limit Triggering Labeling in Component	Country	Regulation	Test Method [detection limit] if any	Comment	GAFTI Comments
50-00-0	Formaldehyde (0 - 36 months)	20 ppm	Korea	Safety Quality Mark Act (KC Mark)			
	Formaldehyde (3 - 12 years)	75 ppm (innerwear), 300 ppm (outerwear)					
	Azo Dyes	30 ppm					
56573-85-4	Tributyltin (TBT)	0.05 ppm					
1002-53-5	Dibutyltin (DBT) (0 - 36 months)	1 ppm					
624-49-7	Dimethyl Fumarate	0.1 ppm					
117-84-0	Di-n-octyl phthalate (DNOP)	0.10%					
117-81-7	Di (2-ethylhexyl) phthalate (DEHP)						
85-68-7	Benzyl Butyl phthalate (BBP)						
84-74-2	Di-n-butyl phthalate (DBP)						
68515-48-0 28553-12-0	Di-isononyl phthalate (DINP)						
68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)						
32534-81-9	Penta-bromodiphenyl ether (pentaBDE) (0 - 12 years)	Banned (only applicable to flame retardant products)					
32536-52-0	Octa-bromodiphenyl ether (octaBDE) (0 - 12 years)						
68112-30-1	TDBPP (0 - 12 years)						
	Disperse Dyes	Not Detected					
7439-92-1	Lead (Pb) (0 - 12 years)	40 ppm	Illinois	Lead Posioning Prevention Act			
	Lead (Pb) (above 12 years)	600 ppm					

Appendix III – AFIRM Extra

(Non-regulated substances on the AFIRM RSL Guidance which do not otherwise appear in the AAFA RSL)

Appendix III	Non-Regulated: This appendix lists those non-regulated substances on the AFIRM RSL Guidance which do not otherwise appear in the AAFA RSL.				
CAS Number	**Chemical Name/Color Index Name**	**Restriction / Maximum Limit**	**Test Method [detection limit] if any**	**Comment**	**GAFTI Comments**
7440-43-9	Barium (Ba)	1000 ppm	EN ISO 17294-2		
7440-48-4	Cobalt (Co) extractable	1 ppm babies, 4 ppm adults	EN ISO 17294-2		
90-43-7	Ortho-phenylphenol (o-PP)	5 ppm	GC-MS LC-MS for confirmation		
25167-82-2	Trichlorophenol	.05 ppm babies, .5 ppm adults	GC-MS LC-MS for confirmation		
624-18-0	Benzene-1,4-diamine dihydochloride	1000 ppm	GC-MS		
103-33-3	Azobenzene	1000 ppm	GC/MS or LC/MS		
106-50-3	p-Phenylendiamine	Non-Detect	see benzene diamine		
Multiple	Chlororganic carriers	1 ppm	DIN 54232		
100-44-7	Benzyl-chloride	4 ppm	GC/MS or LC/MS		
N/A	Monobutyltin	.5 ppm (babies) 1 ppm (adults)	ISO 17353		
Multiple	Sum of medium chained (MCCP's) C14-17	1000 ppm	GC/MS using NCI (negative chemical ionization)		
Multiple	NPEO, OPEO	NPEO/OPEO's: 100 ppm	LC-MS		
Multiple	NP, OP	NP/OP: Non-Detect	LC-MS		
3380-34-5	Triclosan	Non-Detect	GC/MS		
68-12-2	Dimethylformamide (DMFA)	Non-Detect	GC/MS		
Multiple	Polycyclic aromatic hydrocarbons (PAH)	10 ppm (all), benzo[a]pyrene 1 ppm (all)	ZEK 01.4-08		
9002-86-2	Polyvinyl chloride (PVC)	usage ban	FTIR		
1321-70-5	Tricyclohexyltin (TCyHT)	Non-Detect	ISO 17353		

250-252-89-2	Trioctyltin	Non-Detect	ISO 17353		
N/A	Tripropyltin (TPT)	Non-Detect	ISO 17353		
CAS Number	**Chemical Name/Color Index Name**	**Restriction / Maximum Limit**	**Test Method [detection limit] if any**	**Comment**	**GAFTI Comments**
80-08-7	Bisphenol-A	Non-Detect	GC/MS		
Multiple	Cationic Surfactants	Non-Detect	LC/MS		
Multiple	Isocyanates	Non-Detect	free: HPLC; blocked: GC-MS with injector block temperature at 300 C; confirmation at 180 C		
Multiple	Biocides	1 ppm	GC/MS resp. LC/MS		
Multiple	Chlorinated Aromatics	1 ppm	DIN 54232		
79-06-1	Acrylamide Monomer	0.1 ppm	GC/MS		
107-13-1	Acrylonitrile Monomer	1 ppm	GC/MS		
140-88-5	Ethyl acrylate	10 ppm	GC/MS		
75-01-4	Vinyl chloride - Monomer	1 ppm	GC/MS		
Multiple	Acrylates - Monomer	50 ppm	GC/MS		
7782-49-2	Selenium (Se)	500 ppm	EN ISO 17294-2		
92-52-4	Biphenyl	50 ppm	GC/MS		
Multiple	Sensitizing Isothiazolinones	50 ppm	GC/MS, confirmation: LC/MS		
98-86-2	Acetophenone	75 ppm	GC-MS		
617-94-7	2-Phenyl-2-propanol	75 ppm	GC-MS		

Changes from RSL 11 to RSL 12

General:	No changes
Technical Notes	
Arylamines	Added test method EN ISO 127234-1:2010 for 4-Amino azobenzene Changed test method EN-ISO 17234-2: to EN-ISO 17234-2:2012 for o-Aminoazotoluene Changed test method EN 14362-3 to EN 14362-3:2012 for o-Aminoazotoluene Changed regulation GB18401-2003 to GB18401-2010 Changed regulation GB/T 17592-2006 to GB/T 17592-2011 Changed GB/T 19942 to GB/T-19942-2005
Disperse Dyes	Added Acid Red 26 CAS# 3761-53-3 Added Basic Red 9 CAS# 569-61-9 Added Basic Violet 14 CAS# 632-99-5 Added Direct Blue 6 CAS# 2602-46-2 Added Direct Black 38 CAS# 1937-37-7 Added Direct Red 28 CAS# 573-58-0 Added Disperse Blue 1 CAS# 2475-45-8 Added Disperse Orange 11 CAS# 82-28-0 Added Disperse Yellow 3 CAS# 2832-40-8 Added regulation ES 7266-4/2011 for added dyes Added test method DIN 54231/ §64 LFGB 82.02-10
Solvents	Added Other Volatiles to common chemical name category Added restriction ≤20 g/m^2 Added regulation GB 21550-2008 (PVC artificial leather) Added test method GB 21550 Clause 5.5 Added Regulation (EC) No. 1005/2009

Pesticides	Added restriction limit as prohibited for Hexachlorobenzene, Mirex, and PCTs Added Canada to as the most restrictive country setting limit Hexachlorobenzene, Mirex, and PCTs Added regulation Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285) for Hexachlorobenzene, Mirex, and PCTs Added limit of 1mg/kg (textile), <1mg/kg (leather) for Pentachlorophenol (PCP), its salts and compounds Added Egypt as the most restrictive country setting limit for Pentachlorophenol (PCP), its salts and compounds Added regulation ES 6535/2008, ES 7322/2011 Added test method XP-G08 015 (textile) ISO 17070 (leather) Added Denmark, and the Netherlands to other countries that also regulate Pentachlorophenol (PCP), its salts and compounds Under comments added REACH Regulation (EC) No. 1907/2006 Annex XVII, limit 0.1 mg/kg
Asbestos	No changes
Fluorinated Greenhouse Gases	Added Regulation (EC) No. 842/2006
Dioxins & Furans	No changes
Flame Retardants	Added: POPs Regulation (EC) No. 850/2004, Annex 1 Added to comments: POPs" Articles should not contain SCCPs that were placed on the market after January 10, 2013 Added Egypt to the list of countries that regulate Polybrominated biphenyls (PBBs) Added regulation: European Union POPs Regulation (EC) No. 850/2004, Annex I for Penta-bromodiphenyl ether (pentaBDE) Added Egypt to the list of countries that regulate Tris (2,3-dibromopropyl) phosphate (TRIS) Added Egypt to the list of countries that regulate Tris (1-aziridinyl)-phosphine oxide (TEPA) Added comment: European Union REACH Regulation (EC) No. 1907/2006 Candidate List for Tris(2-chloroethyl) phosphate (TCEP)
Metals	Added regulation: Taiwan CNS 15290 for Cadmium in textiles, leather, metal parts, plastics and films, surface coatings and printing Added test method: Taiwan CNS 4797-2 for Cadmium in textiles, leather, metal parts, plastics and films, surface coatings and printing

	Added Egypt to the list of countries that regulate Lead Added Taiwan and Egypt to the list of countries that regulate Chromium (Cr 6+) - hexavalent Changed test method for Nickel release to: EN 1811:2011 Added Egypt to the list of countries that regulate Nickel Added Soluable Heavy metals Lead: 90 mg/kg PVC artificial leather Cadmium: 75 mg/kg artificial leather Antimony: 60 mg/kg Arsenic: 25 mg/kg Barium: 1000 mg/kg Cadmium: 75 mg/kg Chromium: 60 mg/kg Lead: 90 mg/kg Mercury: 60 mg/kg Selenium: 500 mg/kg Added China as the most restrictive country limiting Lead and Cadmium PVC artificial leather Added regulation GB 21550-2008 Lead and Cadmium PVC artificial leather Added test method GB 21550 Clause 5.4 Lead and Cadmium PVC artificial leather Added Egypt as the most restrictive country limiting Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, and Mercury, and Selenium Added regulation: ES 7322/2011 for Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, and Mercury, and Selenium Added test method EN 71-3 for Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, and Mercury, and Selenium Added comment that limits on soluble heavy metals apply in Egypt for children less than 36 months , footwear size 26 and less. Added Taiwan as other countries that regulate Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, and Mercury, and Selenium. Regulation CNS 15503, test method CNS 4797-2
Organotin	Added Prohibited as restriction for Tributyltin (TBT) Added Canada as the most restrictive country limiting Tributyltin (TBT) Added regulation Prohibition of Certain Substances Regulation, 2012 (SOR/2012-285) Added Japan and the EU to other countries regulating Tributyltin (TBT)

	Added comment: European Union, all tri-substituted organotin are restricted Added for EU, 0.1% by weight of tin as maximum limit on final product for Dibutyltin (DBT) Added the EU as the most restrictive country limiting Dibutyltin (DBT) Added regulation European Union REACH Regulation (EC) No. 1907/2006 Annex XVII for Dibutyltin (DBT) Added by weight of tin for Dioctyltin (DOT) Added regulation European Union REACH Regulation (EC) No. 1907/2006 Annex XVII for Dioctyltin (DOT)
Misc	Added Egypt, and Indonesia to countries that also regulate Formaldehyde Added (textiles or other coated materials) <0.1% for articles for Perfluorooctane sulfonate (PFOS) Added POPs Regulation (EC) No. 850/2004 Annex I for Perfluorooctane sulfonate (PFOS) Added Egypt to other countries regulating Perfluorooctane sulfonate (PFOS) Added 62-75-9 N-Nitrosodimethylamine Added 55-18-5 N-Nitrosodiethylamine Added 621-64-7 N-Nitrosodipropylamine Added 924-16-3 N-Nitrosodibutylamine Added 100-75-4 N-Nitrosopiperidine Added 930-55-2 N-Nitrosopyrrolidine Added 59-89-2 N-Nitrosomorpholine Added 614-00-6 N-Nitroso-N-methylaniline Added 612-64-6 N-Nitroso-N-ethylaniline Added Not detected (detection limit: 0.5 mg/kg) for all Nitrosamines Added China as the most restrictive country limiting Nitrosamines Added regulation GB 25036-2010 GB 25038-2010 for Nitrosamines Added test method GB/T 24153 for Nitrosamines
pH Value	Added 4.0- 7.5 as maximum limit for (0-36 months) Added 4.0- 8.5 as maximum limit for (direct skin contact) Added 4.0-8.0 as maximum limit for (without direct skin contact) Added 4.0- 7.5 as maximum limit for (infant, children, innerwear, midwear) Added 4.0-9.0 as maximum limit for (outerwear, bedding) Added not less than 3.5 as as maximum limit Added China, South Korea, and Egypt as the countries setting the most restrictive limit for pH value

	Added regulation GB 18401-2010 Added regulation ES 6535/2008 Added test method GB/T 7573 Added test method KS K ISO 3071/ ISO 3071 Added ISO 4045
Vinyl Chloride Monomer (VCM)	Added restriction limit as 1mg/kg Added Egypt as country setting the most restrictive limit for Vinyl Chloride Monomer (VCM) Added regulation 7322/2011 Added test method ISO 6041/ 64 LFGB B.80.32- 1:1981-11/80/766/EC Added China as country also regulating Vinyl Chloride Monomer (VCM)
Polycyclic aromatic hydrocarbons (PAH)	Added 91-20-3 Naphthalene (Taiwan only) Added 208-96-8 Acenaphthylene (Taiwan only) Added 83-32-9 Acenaphthene (Taiwan only) Added 86-73-7 Fluorene (Taiwan only) Added 85-01-8 Phenanthrene (Taiwan only) Added 120-12-7 Anthracene (Taiwan only) Added 206-44-0 Fluoranthene (Taiwan only) Added 129-00-0 Pyrene (Taiwan only) Added 56-55-3 Benzo(a)anthracene (Taiwan and EU draft) Added 218-01-9 Chrysene (Taiwan and EU draft) Added 193-39-5 Indeno(1,2,3-cd)pyrene (Taiwan only) Added 205-99-2 Benzo(b)fluoranthene (Taiwan and EU draft) Added 207-08-9 Benzo(k)fluoranthene (Taiwan and EU draft) Added 50-32-8 Benzo(a)pyrene (Taiwan and EU draft) Added 53-70-3 Dibenzo(a,h)anthracene (Taiwan and EU draft) Added 191-24-2 Benzo(g,h,i)perylene (Taiwan only) Added 192-97-2 Benzo(e)pyrene (EU draft only) Added 205-82-3 Benzo(j)fluoranthene (EU draft only) Added restriction limit for Benzo(a)pyrene: 1 mg/kg each Added restriction limit sum of all Polycyclic aromatic hydrocarbons (PAH): 10mg/kg Added regulation CNS 3478 and CNS 11503

	Added draft regulation amending European Union REACH regulation (EC) No 1907/2006 Annex XVII Added test method CNS 3478 Clause 6.18
Phthaltes	Added U.S. each phthalates 0.1% Added EU: 0.1% for DEHP+DBP+BBP 0.1% for DINP+ DIDP+DNOP Added the EU as country with most restrictive limit on phthalates Added CPSC-CH-C1001-09.3 or GB/T 22048-2008 Added Egypt to countries that also regulate phthalates Added 131-11-3 Dimethyl phthalate (DMP) Added 84-66-2 Diethyl phthalate (DEP) Added 84-69-5 Diisobutyl phthalate (DIBP) Added 68515-42-4 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) Added 117-82-8 Bis(2-methoxyethyl) phthalate (DMEP) Added 605-50-5 Diisopentylphthalate (DIPP) Added 776297-69-9 N-pentyl-isopentyl phthalate (NPIPP) Added 84777-06-0 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP) Added 0.1% (sum) for Dimethyl phthalate (DMP), Diethyl phthalate (DEP), Diisobutyl phthalate (DIBP) Added 0.1% w/w per article (each) for (DHNUP), (DMEP), (DIPP), (NPIPP), (DPP) Added Taiwan as the country setting the most restrictive limit for (DMP), (DEP) Added Denmark as the country setting the most restrictive limit for (DIBP) Added EU as the country setting the most restrictive limit for (DHNUP), (DMEP), (DIPP), (NPIPP), (DPP) Added regulation Taiwanese CNS 15503 (children's products) Added Denmark regulation Executive Order 1113 of 26 October 2012 Added European Union REACH Regulation (EC) no. 1907/2006 Candidate List

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