

RESTRICTED SUBSTANCE LIST (RSL)

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¹ Appendix I lists regulations which have a reporting requirement that are not necessarily otherwise listed in the RSL. ² Appendix II lists regulations which have a labeling requirement that are not necessarily otherwise listed in the RSL.

Introduction

The 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.

The RSL was developed to 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 and international regulations governing the amount of substances that are permitted in finished home textile, apparel, and footwear products.

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 no regulatory concentration limits but may warrant evaluation for applicability.

- 1. The U.S. Environmental Protection Agency (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 https://www.aafaglobal.org/AAFA/Solutions Pages/RSL Covering California Proposition 65.

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 Global Apparel, Footwear and Textile Initiative (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. Representing more than 1,000 world famous name brands, retailers, and manufacturers — AAFA is the trusted public policy and political voice of the apparel and footwear industry, its management and shareholders, its nearly four million U.S. workers, and its contribution of \$384 billion in annual U.S. retail sales.

AAFA stands at the forefront as a leader of positive change for the apparel and footwear industry. With integrity and purpose, AAFA delivers a unified voice on key legislative and regulatory issues. AAFA enables a collaborative forum to promote best practices and innovation. AAFA's comprehensive work ensures the continued success and growth of the apparel and footwear industry, its suppliers, and its customers.

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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 azobenzene							
97-56-3	o-Aminoazotoluene							
92-67-1	4-Aminodiphenyl					South Korea (KC Mark, for		
99-55-8	2-Amino-4-nitrotoluene					more information review Appendix II), and Indonesia		
90-04-0	o-Anisidine			Regulations below apply to all				
92-87-5	Benzidine			Arylamines listed in this RSL				
106-47-8	p-Chloroaniline				Textiles (EU): ISO 14362-1 :2017	Switzerland, Norway, and Taiwan, Turkey		
95-69-2	4-Chloro-o-toluidine				Leather (EU): EN ISO 17234- 1:2015	"Indonesia: No.72/M-	4- Amino azobenzene is not	
120-71-8	p-Cresidine	Reported as not detected.		European Union REACH Regulation (EC) No. 1907/2006		IND/PER/7/2012 SNI7617:2013	listed in GB20400-2006;	
615-05-4	2,4-Diaminoanisole	China restriction limit:		Annex XVII	Test methods specific for 4-		Only 23 arylamines are	
101-77-9	4,4'-Diaminodiphenylmethane	Textiles 20ppm			Aminoazobenzene confirmation: LFGB 82.02-9	Egypt:	subject to this standard	
91-94-1	3,3'-Dichlorobenzidine	Leather 30ppm			LFGB 82.02-15 EN ISO 17234-2:2011	ES 7266-4/2011 ES 7322/2011"		
119-90-4	3,3'-Dimethoxybenzidine	EU restriction limit:	Vietnam, EU,	The National Standard of the	AAB ISO 14362 - 3:2017 •GB/T 23344-2009			
119-93-7	3,3'-Dimethylbenzidine	Textiles and Leather: 30ppm	and China	People's Republic of China GB18401-2010	(pAAB) confirmation	Taiwan: CNS 15290		
838-88-0	3,3'-Dimethyl-4,4'-diamino- diphenylmethane	Vietnam restriction limit:				CNS 15503 (children products) CNS 8634 (leather casual		
101-14-4	4,4'-Methylene-bis-(2- chloroaniline)	restricts AZO dyes and Formaldehyde		The National Standard of the People's Republic of China	Textiles (China) GB/T 17592-2011	shoes) CNS 10632 (leather shoes)"	GB 30585-2014 (Safety technical specification for children's footwear) - will	
91-59-8	2-Naphthylamine	Azo dyes limit: 30 ppm		GB20400-2006-Leather and Fur			apply on 1 Jan 2016	
101-80-4	4,4'-Oxydianiline				Leather and fur (China)			
139-65-1	4,4'-Thiodianiline			Vietnam	GB/T 19942-2005			
95-80-7	2,4-Toluenediamine			Circular no.21/2017/TT-BCT		Japan:		
95-53-4	o-Toluidine			Going into force May 1, 2018		Textile: JIS L 1940		
137-17-7	2,4,5-Trimethylaniline					Leather: ISO 17234-1:2010/- 2:2011		
95-68-1	2,4-Xylidine (China, Japan only)							
87-62-7	2,6-Xylidine (China, Japan only)							

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							
12172-73-5	Amosite				Microscopic examination;			
77536-67-5	Anthrophyllite	Net detected	European	European Union REACH	minimum magnification1- 250, attached; ratio of fiber	Switzerland and Norway, and		
12001-29-5	Chrysotile	Not detected	Union	Regulation (EC) No. 1907/2006	length to diameter is at polarized light filter least	the U.S		
12001-28-4	Crocidolite			Annex XVII	3:1-(industry practice - not specified by the regulation)			
77536-68-6	Tremolite							

Dioxins & Fur	ans							
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
	Group 1)							
1746-01-6	2,3,7,8- Tetrachlorodibenzo-p-dioxin							
40321-76-4	1,2,3,7,8- Pentachlorodibenzo-p-dioxin	Sum of Group 1:						
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1 μg/kg						
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran							
	Group 2)							
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin							
19408-74-3	1 ,2,3,7,8,9-Hexachlorodibenzo-p-dioxin							
57653-85-7	1 ,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	_						
57117-41-6	1,2,3,7,8- pentachlorodibenzofuran	Sum of Group 1 & 2:						
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	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							
				GERMANY: Dioxins &	US EPA 8290			
	Group 3)		Germany	Furans can be found in § 3				
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	_	Joinnan,	Abs 2, Anlage 1 Eintrag 2 ChemikalienverbotsVO	not specified by the			
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	Sum of Groups 1, 2 & 3:		ChemikalienverbolsvO	regulation)			
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	100 μg/kg						
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)							
50585-41-6	2,3,7,8-Tetrabromodibenzo-p-dioxin							
109333-34-8	1,2,3,7,8-Pentabromodibenzo-p-dioxin	Sum of Group 4:						
67733-57-7	2,3,7,8-Tetrabromodibenzofuran	1 μg/kg						
131166-92-2	2,3,4,7,8-Pentabromodibenzofuran							
	Group 5)							
110999-44-5	1,2,3,4,7,8-Hexabromodibenzo-p-dioxin	_						
110999-46-7	1,2,3,7,8,9-Hexabromodibenzo-p-dioxin	Sum of Groups 4 & 5:						
110999-45-6	1,2,3,6,7,8-Hexabromodibenzo-p-dioxin	5 μg/kg						
107555-93-1	1,2,3,7,8-Pentabromodibenzofuran							

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						The following	
12222-75-2	Disperse Blue 35						disperse dyes are also restricted in Korea KC Mark:	
12223-01-7	Disperse Blue 106						Noted No Wark.	
61951-51-7	Disperse Blue 124	Not Detected (below	0	German Food, Feed and	§64 LFGB B82.02-10 DIN 54231	South Korea (applicable to	Disperse Blue 3 Disperse Blue 7	
730-40-5	Disperse Orange 3	detection limits - see test method)	Germany	Commodities Law §30 (LFGB §30)	KS K 0736:2014	babywear, children's wear and adult underwear)	Disperse Blue 26, Disperse Blue 102 Disperse Orange 1 Disperse Yellow 1 Disperse Yellow 9 Disperse Yellow 39 Disperse Yellow 49 Disperse Red 11	
13301-61-6	Disperse Orange 37/59/76							
2872-52-8	Disperse Red 1							
2832-40-8	Disperse Yellow 3						Disperse Red 17	
С	arcinogenic Dyes*							
3761-53-3	Acid Red 26							
569-61-9	Basic Red 9						* Carcinogenic is not	
632-99-5	Basic Violet 14						used as a description	
2602-46-2	Direct Blue 6				DN154004 /		of a sub category of dyes	
1937-37-7	Direct Black 38	Prohibited	Egypt	ES 7266-4/2011	DIN 54231 / §64 LFGB 82.02-10		The term appears in	
573-58-0	Direct Red 28				35 / 2. 02 02.02 10		the Egyptian law restricting the use of	
2475-45-8	Disperse Blue 1						carcinogenic dyes in	
82-28-0	Disperse Orange 11						clothing & textiles	
2832-40-8	Disperse Yellow 3							

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)	0.1% by weight	European Union Switzerland	European Union POPs Regulation (EC) No. 850/2004, Annex I, amended by Regulation (EU) 2015/2030 SWITZERLAND: ORRChem annex 1.1 (Art.3)	Solvent extraction and GC-MS or LC-MS (industry practice - not specified by the regulation) ISO 18219: 2015	South Korea, and Canada	REACH: Also listed on the SVHC Candidate List POPs: Articles should not contain SCCPs above 0.15% by weight	
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	EU requirement applicable to textiles with direct skin contact South Korea requirement applicable only to bedclothes and nightclothes among underwear [applicable to textile products for babies, children and adult, and textile bedding]	
446255-22-7 207122-16-5, 68928-80-3	Heptabromodiphenyl ether (HeptaBDE)							
68631-49-2, 207122-15-4, 36483-60-0	Hexabromodiphenyl ether (HexaBDE)	10 ppm		POP regulation and in				
5436-43-1, 40088-47-9	Tetrabromodiphenyl ether (TetraBDE)		Switzerland	Switzerland: ORRChem textiles annex 1.1 (Art.3)	ISO 18219: 2015			
25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	Hexabromocyclododecane (HBCDD)	100 ppm						

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
32534-81-9	Penta-bromodiphenyl ether (pentaBDE)	≤ 0.001% by weight	European Union	European Union POPs Regulation (EC) No. 850/2004, Annex I	Solvent extraction and analysis by GC-MS or LC-	United States, Switzerland, and South Korea (KC Mark, for	South Korea requirement applicable only to bedclothes and nightclothes among underwear [applicable to textile	
32536-52-0	Octa-bromodiphenyl ether (octaBDE)	≤ 0.1% by weight	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	MS (industry practice - not specified by the regulation)		products for babies, children and adult, and textile bedding]	
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)	EU requirement applicable to textiles with direct contact with the skin. 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	EU requirement applicable to textiles with direct contact with the skin	
1163-19-5	Decabromodiphenyl ether (DecaBDE)	0.1% by weight	Oregon (United States)	SB 596	Solvent extraction and analysis by GC-MS or LC- MS (industry practice - not specified by the regulation)	Also regulated in various States in the U.S	European Union REACH Regulation (EC) No. 1907/2006 Candidate List	
115-96-8	Tris(2-chloroethyl) phosphate (TCEP)	Prohibited	New York (United States)	A6195/	Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)	Canada, EU	New York ban applies to consumer products, such as baby products, toys, car seats, nursing pillows, crib mattresses, and strollers for intended for use by a child under three years of age	
13674-87-8	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.1% by weight	Vermont, U.S.A	S81	Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)		This chemical should not exceed 0.1% for children products(<12 yr) & residential upholstered furniture	

Fluorinated Green	nhouse 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											
	Hydrofluorocarbons (HFCs):											
75-46-7	HFC-23 - CHF ₃											
75-10-5	HFC-32 - CH ₂ F ₂											
593-53-3	HFC-41 - CH ₃ F											
138495-42-8	HFC-43-10mee - C ₅ H ₂ F ₁₀											
354-33-6	HFC-125 - C ₂ HF ₅											
359-35-3	HFC-134 - C ₂ H ₂ F ₄											
811-97-2	HFC-134a - CH ₂ FCF ₃											
75-37-6	HFC-152a - C ₂ H ₄ F ₂											
430-66-0	HFC-143 - C ₂ H ₃ F ₃											
420-46-2	HFC-143a - C ₂ H ₃ F ₃		l lista									
431-89-0	HFC-227ea - C ₃ HF ₇			European Union	Headspace for components (industry							
677-56-5	HFC-236cb - CH ₂ FCF ₂ CF ₃	Prohibited	European Union	Regulation (EU) No	practice - not		Regulation (EU) 517/2014					
431-63-0	HFC-236ea - CHF ₂ CHFCF ₃		OHIOH	517/2014	specified by the		317/2014					
690-39-1	HFC-236fa - C ₃ H ₂ F ₆				regulation)							
679-86-7	HFC-245ca - C ₃ H ₃ F ₅											
460-73-1	HFC-245fa - CHF ₂ CH ₂ CF ₃											
406-58-6	HFC-365mfc - CF ₃ CH ₂ CF ₂ CH ₃											
	Perfluorocarbons (PFCs):											
75-73-0	Perfluoromethane - CF ₄											
76-16-4	Perfluoroethane - C ₂ F ₆											
76-19-7	Perfluoropropane - C ₃ F ₈											
355-25-9	Perfluorobutane - C ₄ F ₁₀											
678-26-2	Perfluoropentane - C ₅ F ₁₂											
355-42-0	Perfluorohexane - C ₆ F ₁₄	1										
115-25-3	Perfluorocyclobutane - c- C ₄ F ₈											

Metals								
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
				Restri	ctions for Textiles			
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU, and Turkey	For all textile products and textile accessories. Test method CNS 4797-2 is similar to EN 71-3 for determination of soluable Cadmium content Washington State Children's Produt Safety Act: total cadmium: 40 mg/kg	
7439-92-1	Lead (Pb)	Total Lead: 500 ppm Rate of lead release of Lead: ≤0.05 μg/cm²/h (0.05 μg/g/h)	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Total Lead: Total Digestion (industry practice - not specified by the regulation)		This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children. This retriction will apply from 1 June 2016.	
7439-92-1	Lead (Pb)	100 ppm	Denmark	Statutory Order no. 856 of September 5, 2009	Total Digestion (industry practice - not specified by the regulation)	U.S., and Egypt	CPSC determined textiles are exempt from testing since they are unlikely to contain lead in excess of 100ppm Determination does not include post- production prints and surface coatings	
7439-92-1	Lead (Pb)	90 PPM	Korea	Korea Certification Mark (KC Mark, for more information review Appendix II)		Taiwan	Applies to textile products for children. (0 - 12 years)	Total Content: CPSC- CH-E1002-08.1 (http://www.gafti.org/tem plate?series=4&article=
7439-92-1	Lead (Pb)	0.2 ppm (leachable)		FZ/T 81014-2008 - Infant's wear (woven)	GB/T 17593.1 Textiles- Determination of heavy metals Part		Applies to woven infant wear and adornment products (≤ 24months) only	11)
7440-47-3	Chromium	1.0 ppm (leachable)	China	FZ/T 73025-2013 (Knitted garment and adornment for infant)	1: Atomic absorption spectrophotometry		FZ/T 73025-2013 (Knitted garment and adornment for infant) Applies to infant knitted wear (≤ 36 months) or body height (≤ 100 cm)	
7439-97-6	Mercury	0.02 ppm (leachable)		FZ/T 81014-2008 - Infant's wear (woven)	GB/T 17593.4 TextilesArsenic		Applies to woven infant wear and adornment products (≤ 24months) only	
7440-38-2	Arsenic	0.2 ppm (leachable)	China	FZ/T 73025-2013 (Knitted garment and adornment for infant)	and Mercury		FZ/T 73025-2013 (Knitted garment and adornment for infant) Applies to infant knitted wear (≤ 36 months) or body height (≤ 100 cm)	
7440-50-8	Copper	25 ppm (leachable)	China	FZ/T 81014-2008 - Infant's wear (woven) FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.1 Textiles- Determination of heavy metals Part 1: Atomic absorption spectrophotometry		Applies to knitted textile products, including clothing, bedding and accessories for infants Infant is a child ≤ 36 months old or ≤ 100 cm in height.	

Metals								
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
	1	I	T	Retri	ctions for Metals		T	l
7440-43-9	Cadmium (Cd)	0.1 ppm (leachable)		Regulation, No. 07/M-	ISO 105-E04 followed by ICP-			
7439-92-1	Lead (Pb)	0.2 ppm (leachable)	Indonesia	IND/PER/2/2014	OES/AAS analysis		Infant apparel (0-36 months)	
7440-50-8	Copper	25 ppm (leachable)						
7440-02-0	Nickel (Ni)	1.0 ppm (leachable)	Indonesia	Regulation, No. 07/M- IND/PER/2/2014	ISO 105-E04 followed by ICP- OES/AAS analysis	Turkey	Infant apparel (0-36 months)	
7440-36-0	Antimony	30ppm (leachable)					Applies to knitted textile products,	
7440-43-9	Cadmium (Cd)	0.1 ppm (leachable)		FZ/T 73025-2013 (Knitted garment	GB/T 17593.4 Textiles- Determination of heavy metals Part		including clothing, bedding and	
7440-48-4	Cobalt	1.0ppm (leachable)	China	and adornment for infant)	1: Atomic absorption		accessories for infants	
7440-02-0	Nickel (Ni)	1.0 ppm (leachable)			spectrophotometry		Infant is a child ≤ 36 months old or ≤	
18540-29-9	Chromium (Cr6+) hexavalent	Not Detected (0.5 ppm leachable)	China	FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.4 Textiles- Determination of heavy metals Part 4: Determination of tear force of tongue-shaped test specimens		100 cm in height	
7440-38-2	Arsenic (As)			GB 30585-2014 (Safety technical	QB/T 4340 Footwear - Chemical test		Applies to children's footwear (≤14	
7439-92-1	Lead (Pb)	100 mg/kg	China	specification for children's	method - total heavy metal content - Inductively coupled plasma emission		years old), Size of the shoes <250 mm	
7440-43-9	Cadmium (Cd)			footwear)	spectroscopy		(exclude children's rubber shoes)	
				Restri	ctions for Leather			
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU, Egypt, and South Korea	For all textile products and textile accessories Washington State Children's Produt	
		Total Lead: 500 ppm			Total Lead: Total Digestion (industry		Safety Act: total cadmium : 40 mg/kg	
7439-92-1	Lead (Pb)	Rate of lead release of Lead: ≤0.05 µg/cm²/h (0.05 µg/g/h)	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	practice - not specified by the regulation)		This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children.	
7439-92-1	Lead (Pb)	100 ppm	Denmark	Statutory Order no. 856 of September 5, 2009	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) CPSC determined leather can be exempt from testing since it is unlikely	
				5,200	not open mod by the regulation,		Determination does not include finishes and surface coatings	
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	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII requirement: < 3 ppm	
7440-38-2	Arsenic	100 mg/kg			007.0005			Extractable Content: EN71.3
7439-92-1	Lead (Pb)	100 mg/kg	China	GB 30585-2014 (Safety technical specification for children's footwear)	QB/T 4340 Footwear - Chemical test method - total heavy metal content - Inductively coupled plasma emission		Applies to children's footwear (≤14	Total Content: CPSC- CH-E1002-08.1 (http://www.gafti.org/tem
7440-43-9	Cadmium (Cd)	100 mg/kg		,	spectroscopy		years old) , Size of the shoes <250 mm (exclude children's rubber shoes)	plate?series=4&article= 11)
18540-29-9	Chromium (Cr 6+) - hexavalent	10 mg/kg	China	GB 30585-2014 (Safety technical specification for children's footwear)	QB/T 22807 Leather and fur—Chemical tests—Determination of chromium VI content			

Metals								
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
				Restriction	ons for Metal Parts			
7439-92-1	Lead (Pb)	Total Lead: 500 ppm Rate of lead release of Lead: ≤0.05 μg/cm²/h (0.05 μg/g/h)	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Total Lead: Total Digestion (industry practice - not specified by the regulation)		This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children.	
7439-92-1	Lead (Pb)	100 ppm	Denmark	Statutory Order no. 856 of September 5, 2009	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) The CPSC requires specific test methods to be used for certification	
7440-02-0	Nickel (Ni) (in metal items)	0.5 μg/cm²/week	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Nickel release by EN 1811:2011+A1:2015 for non-coated item; EN 12472:2005+A1:2009 and EN 1811:2011+A1:2015 for coated item	Egypt	Restriction only applicable in cases where there is direct and prolonged contact with skin	
7440-43-9	Cadmium	100 ppm	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Total Digestion (industry practice- not specified by the regulation)		This restriction is applicable to jewellery, imitation jewellery and hair accessories Washington State Children's Produt Safety Act: total cadmium: 40 mg/kg	Extractable Content: EN71.3 Total Content: CPSC- CH-E1001-08.1 (http://www.gafti.org/tem plate?series=4&article= 11)
7440-38-2	Arsenic (As)	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 mg/kg	China	GB 30585-2014 (Safety technical specification for children's footwear)	QB/T 4340 Footwear - Chemical test method - total heavy metal content - Inductively coupled plasma emission		Applies to children's footwear (≤14 years old) , Size of the shoes <250 mm (exclude children's rubber shoes)	
7440-43-9	Cadmium (Cd)			,	spectroscopy			
				Restrictions for	Plastics and Plastic Film			
7439-92-1	Lead (Pb)	Total Lead: 500 ppm Rate of lead release of Lead: ≤0.05 µg/cm²/h (0.05 µg/g/h)	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Total Lead: Total Digestion (industry practice - not specified by the regulation)		This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children.	
7439-92-1	Lead (Pb)	100ppm	Denmark	Statutory Order no. 856 of September 5, 2009	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 The CPSC requires specific test methods to be used for certification.	
7440-43-9	Cadmium (Cd)	100 ppm	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Total Digestion (industry practice- not specified by the regulation)	Egypt, South Korea	It is applicable to particular plastic materials such as PVC, PU, etc	
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2		For all textile products and textile accessories. Test method CNS 4797-2 is similar to EN 71-3 for determination of soluable Cadmium content	Extractable Content: EN71.3 Total Content: CPSC- CH-E1002-08.1
18540-29-9	Chromium (Cr6+) hexavalent	10ppm	Taiwan	CNS 15503	CNS 15331 Annex A CNS 15331 Annex B		For children's products	
7440-38-2 7439-92-1	Arsenic (As) Lead (Pb)	100 mg/kg	China	GB 30585-2014 (Safety technical specification for children's	QB/T 4340 Footwear - Chemical test method - total heavy metal content - Inductively coupled plasma emission		Applies to children's footwear (≤14 years old), Size of the shoes <250 mm	
7440-43-9	Cadmium (Cd)			footwear)	spectroscopy		(exclude children's rubber shoes)	

Metals								
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
Restrictions for S	urface Coatings and Prin	ting						
7439-92-1	Lead (Pb)	Total Lead: 500 ppm Rate of lead release of Lead: ≤0.05 μg/cm²/h (0.05 μg/g/h)	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Total Lead: Total Digestion (industry practice - not specified by the regulation)		This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children.	
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 'fluids, semi-fluids or solids with or without pigments which change to a solid film after their application in thin layers on metal, wood, stone, paper, leather, fabric, plastic or other materials'	Extractable Content: ASTM F963 Total Content: CPSC- CH-E1003-09.1 (http://www.gafti.org/tem plate?series=4&article= 11)
7440-43-9	Cadmium (Cd)	EU: 1000 ppm South Korea: 75 ppm	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Total Digestion (industry practice- not specified by the regulation)	Egypt, South Korea	Total Cadmium is prohibited in Egypt.	
7440-43-10	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	Egypt, South Korea, and the EU	Prohibited for all textile products and textile accessories. Test method CNS 4797-2 is similar to EN 71-3 for determination of soluble Cadmium content	
Soluble Heavy Me	etals							
	China: PVC artificial	Lead: 90 mg/kg						
	leather	Cadmium: 75 mg/kg	China	GB 21550-2008	GB 21550 Clause 5.4			
		Antimony: 60 mg/kg						
		Arsenic: 25 mg/kg						
	Form days and a	Barium: 1000 mg/kg						
	Egypt: children less than 36 months footwear, size 26 and less	Cadmium: 75 mg/kg	Egypt	ES 7322/2011	EN 71-3			
	Taiwan: Children	Chromium: 60 mg/kg	Taiwan	CNS 15503 (children's product)	CNS 4797-2			
	products up to age 14	Lead: 90 mg/kg						
		Mercury: 60 mg/kg						
		Selenium: 500 mg/kg						
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Miscellaneous	Miscellaneous							
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
	Formaldehyde							
	Formaldehyde 0-36 months old	Not Detected (detection limit is 16 mg/kg) (textiles)	Japan	Japanese Law 112	Textile: ISO 14184-1 orJIS L1041 (Law 112) (textiles) China GB/T 2912.1 CNS 15580-1 Leather: ISO 17226-2	China, Russia, Finland,	Vietnam, South Korea define baby products as 0-36 months old Japan and-Taiwan, define baby products as 0-24 months South Korea also regulates bed clothes with a limit of 300ppm Taiwan regulates indoor decorative textile with a limit of 300ppm	
	>36 months old (with direct skin contact)	75 ppm (detection limit is 16 mg/kg) (textiles)	Japan	Japanese Law 112	CNS 15579	Norway, France, Netherlands, Austria, Lithuania, Germany, New Zealand, South Korea, Vietnam, Taiwan, Egypt, Indonesia and US Minnesota	China defines baby products based on particular standards in Textile Product (GB 18401) is 0-36 months. Leather Product (GB 20400 is 0-24 months) GB 30585 regulates Formaldehyde in children's shoes (≤14 years old), Size of the shoes <250 mm (will apply from 1 Jan 2016)	
	>36 months old (no direct skin contact)	300 ppm (detection limit is 16 mg/kg) (textiles)	See other countries		Textile: ISO 14184-1 orJIS L1041 (Law 112) (textiles), China GB/T 2912.1, Leather: ISO 17226-2		US Minnesota Statutes, chapter 325F regulate formaldehyde in children's products (<8 years old), <500 ppm	
50-00-0	Formaldehyde (leather and fur) Baby products (0-24 months)	20 ppm	China	GB20400-2006	GB/T 19941			
	Leather and fur (with direct skin contact)	75 ppm	China	GB20400-2006	GB/T 19941			
	Leather and fur (without direct skin contact)	300 ppm	China	GB20400-2006	GB/T 19941			
	Formaldehyde (infant athletic shoes and skin contact components in children's athletic shoes)	≤ 75 ppm	China	QB/T 4331	Textile: GB/T 2912.1-2009 Leather: GB/T 19941-2005		Infant athletic shoes are defined as athletic shoes not greater than 170mm in size to be worn by a child under 3 years of age Children athletic shoes are defined as athletic shoes not greater than 250mm in size to be worn by a child between 3 and 14 years of age	
	Formaldehyde (non-skin contact components on children's athletic shoes)	≤ 300 ppm	China		Textile: GB/T 2912.1-2009 Leather: GB/T 19941-2005			
Fo	Formaldehyde (Textiles and artificial leather on upper, lining and insole of vulcanized shoes- infant shoes	≤ 75 ppm	China		GB/T 2912.1-2009			
	Formaldehyde (Textiles and artificial leather on upper, lining and insole of vulcanized shoes- other shoes	≤ 150 ppm	China		GB/T 2912.1-2009			

Miscellaneous								
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
2795-39-3	Perfluorooctane sulfonate (PFOS)	1 µg/m² (textiles or other coated materials) <0.1% for articles	European Union	European Union POPs Regulation (EC) No. 850/2004 Annex I	Solvent Extraction LC-MS (industry practice-not specified by the regulation)	Canada and Norway, Egypt, Switzerland, and Turkey	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	
335-67-1, 3825-26-1 335-95-5 2395-00-8 335-66-0 376-27-2 3108-24-5	Perfluorooctanoic acid (PFOA), its salts and esters	1 μg/m² (textiles or other coated materials) 0.1% by weight (product) 0.001% by weight (substances or mixtures)	Norway	Norwegian Product Regulation	CEN/TS 15968:2010	European Union REACH Regulation (EC) No 1907/2006 Annex XVII entry 68 (will apply from 4 July 2020)	Effective June 1, 2014 PFOA is added to Norwegian Product Regulation with different limits in various materials. The substances whose CAS NO. are 335-67-1 and 382526-1 are listed under European Union REACH Regulation (EC) no. 1907/2006 Candidate List	
118685-33-9	Blue Colorant	Prohibited; 0.1% by weight for EU	European union	European Union REACH Regulation (EC) No 1907/2006 Annex XVII		Norway, Egypt, and Switzerland: ORRChem textiles annex 1.13 (Art.3)	Restriction of Blue Colorant in EU applies to substances and mixtures only. (Egypt applies to finished textile products)	
25154-52-3	Nonyl phenol	1000ppm		European Union REACH Regulation (EC) No 1907/2006 Annex XVII and European Union REACH Regulation (EC) no. 1907/2006 Candidate List		Taiwan CNS 15290 (for	For substances and mixtures only. Also for textile and leather processing	
2795-39-3	Nonyl phenolethoxylates	100ррт	European Union	European Union REACH Regulation (EC) No 1907/2006 Annex XVII entry 46a (will apply from 3 Feb 2021) and European Union REACH Regulation (EC) no. 1907/2006 Candidate List	BS EN ISO 18254 Textiles- Methods for the Detection and Determination of alkyl phenol ethoxylates APEOS	children's textile products below age 12 only), and Turkey	REACH Annex XVII entry 46a is applicable to textile articles which can reasonably be expected to be washed in water	
		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			
	pH value	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)	- Facility	FO 0505/0000	100 1017			
		not less than 3.5	Egypt	ES 6535/2008	ISO 4045	Germany-		
75 01 4	Vind Chlorida Manamar (VCM)	1 mg/kg	Egypt	ES 7322/2011	§64 LFGB B80.32-1:1981-11 /	Bedarfsgegenstande Verordning" German		
75-01-4	Vinyl Chloride Monomer (VCM)	5 mg/kg	China	GB 21550-2008	GB/T 4615-1984	Consumer Goods Ordinance	for polyvinyl chloride artificial leather only	

Miscellaneous								
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
N-Nitrosamine	es .							
62-75-9	N-Nitrosodiethylamine							
55-18-5	N-Nitrosodibutylamine							
621-64-7	N-Nitrosopiperidine							
924-16-3	N-Nitrosopyrrolidine			OD 05000 0040			only applicable for rubber component	
100-75-4	N-Nitrosomorpholine	Not detected (detection limit: 0.5 mg/kg)	China	GB 25036-2010 GB 25038-2010	GB/T 24153		on vulcanized shoes *GB 30585-2014 (only applicable to	
930-55-2	1-Nitrosopyrrolidine			GB 30585-2014			rubber parts of infant shoes)	
59-89-2	Nitrosomorpholine							
614-00-6	N-Nitroso-N-methylaniline							
612-64-6	N-Nitroso-N-ethylaniline							
Polycyclic aro	matic hydrocarbons (PAH)							
91-20-3	Naphthalene (Taiwan only)							
208-96-8	Acenaphthylene (Taiwan only)							
83-32-9	Acenaphthene (Taiwan only)			CNS 3478 (Plastic shoes)				
86-73-7	Fluorene (Taiwan only)			CNS 15503 (children products) (up to				
85-01-8	Phenanthrene (Taiwan only)		Taiwan and the European Union	age 14)	CNS 3478 Clause 6.18			
120-12-7	Anthracene (Taiwan only)	Taiwan:						
206-44-0	Fluoranthene (Taiwan only)	Benzo(a)pyrene: 1mg/kg						
129-00-0	Pyrene (Taiwan only)	Total of 16 PAH: 10mg/kg						
56-55-3	Benzo(a)anthracene (Taiwan and EU)	EU: Articles in direct skin						
218-01-9	Chrysene (Taiwan and EU)	contact with: 1 mg/kg (each)						
193-39-5	Indeno(1,2,3-cd)pyrene (Taiwan only)	Childcare article: 0.5 mg/kg (each)						
205-99-2	Benzo(b)fluoranthene (Taiwan and EU)							
207-08-9	Benzo(k)fluoranthene (Taiwan and EU)			European Union REACH Regulation	AfPS GS 2014:01 PAH			
50-32-8	Benzo(a)pyrene (Taiwan and EU)		European Union	(EC) No 1907/2006 Annex XVII	7.11 0 00 2014.011 ATT			
53-70-3	Dibenzo(a,h)anthracene (Taiwan and EU)							
191-24-2	Benzo(g,h,i)perylene (Taiwan only)							
192-97-2	Benzo(e)pyrene (EU only)							
205-82-3	Benzo(j)fluoranthene (EU only)					L		

Organotin Cor	rganotin Compounds									
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		
56573-85-4	Tributyltin (TBT)	Prohibited	Canada	Prohibition of Certain Substances Regulation, 2012 (SOR/2012-285)	Taiwan test method: NIEA T504.30B DIN ISO/TS 16179: 2012-08	Japan, South Korea (KC Mark, for more information review Appendix II), Taiwan, and Turkey	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)	0.1 percent by weight of tin	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Recommended test method EN ISO 17353 (modified)/ EN ISO/TS 16179:2012 for footwear	Taiwan, Japan, and Turkey				
Various	All tri-substituted organotin compounds including TBT and TPhT)	0.1% by weight of tin	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Recommended test method EN ISO 17353 (modified)/ EN ISO/TS 16179:2012 for footwear					
1002-53-5	Dibutyltin (DBT)	South Korean: 1 mg/kg 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	KS K 0737 DIN ISO/TS 16179: 2012-08	Turkey	South Korea: Applies to baby clothing only (less than 36 months).			
15231-44-4	Dioctyltin (DOT)	0.1% by weight of tin	EU	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	KS K 0737 DIN ISO/TS 16179: 2012-08	Turkey	EU requirement applicable to some specific products, such as textiles with direct skin contact, childcare articles, etc.			

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							
93-76-5	2,4,5-trichlorophenoxyacetic acid, its salts and compounds							
309-00-2	Aldrin (Switzerland and EU POPs)					Japan, South Korea		
57-74-9	Chlordane (Switzerland and EU POPs)			European Union POPs Regulation (EC) No. 850/2004 Annex I	U.S. EPA Method 8081A/8151A -			
72-54-8	Dichloro-diphenyl-dichloro ethane (DDD)	Not Detected	Switzerland, EU	Switzerland: ChemRRV	(industry practice - not specified by the		For Dieldrin, PCP, and TeCP, South Korea restrictions apply at different levels for underwear, baby clothing	
72-55-9	Dichloro-diphenyl-dichloro ethylene (DDE)			(Chemikalien-Risikoreduktions- Verordnung) Art. 3 Appendix 1.1	regulation)		(<24 months) and bedclothes	
50-29-3	Dichloro-diphenyl-trichloro ethane (DDT) (both Switzerland)							
60-57-1	Dieldrin							
72-20-8	Endrine							
76-44-8	Heptachlorine (Switzerland and EU POPs)							
1024-57-3	Epoxy-heptachlorine							
115-29-7 959-98-8 33213-65-9	Endosulfan and its isomers	Prohibited	EU	European Union POPs Regulation (EC) No. 850/2004 Annex I				
36355-01-8	Hexabromobiphenyl			Annex I				
608-93-5	Pentachlorobenzene	10 ppm	Switzerland	Switzerland: ORRChem textiles annex 1.1 (Art.3)	ISO 18219: 2015			
608-90-2	Pentabromobenzene	Prohibited	EU	European Union POPs Regulation (EC) No. 850/2004 Annex I				
63405-99-2	4,6-Dichloro-7 (2,4,5-trichloro- phenoxy) 0-2-trifluoro methyl benz-imidazole (DTTB)	≤ 30 ppm	Japan	Japan Law for the Control of Household Products			Textile Products Only	

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
118-74-1	Hexachlorobenzene (Switzerland and EU POPs)	. colou component		Canada:Prohibition of Certain		Guzetanes		
608-73-1	Hexachlorocyclohexane (HCH, all isomers) except gamma- hexachlorocyclohexane (except linande [58-89-9] in medical products) (Switzerland and EU POPs)	Prohibited	Canada, Switzerland, and the EU	Toxic Substances Regulations 2012 (SOR/2012-285) Switzerland: ChemRRV (Chemikalien-Risikoreduktions- Verordnung) Art. 3 Appendix 1.1				
465-73-6	Isodrin			European Union POPs				
4234-79-1	Kelevane			Regulation (EC) No. 850/2004 Annex I				
143-50-0	Kepone (Chlordecone) (Switzerland and EU POPs)							
72-43-5	Methoxychlor							
2385-85-5	Mirex (Switzerland and EU POPs)							
72-56-0	Perthane							
82-68-8	Quintozene							
8001-50-1	Strobane							
297-78-9	Telodrin			Canada:Prohibition of Certain				
8001-35-2	Toxaphene (Switzerland and EU POPs)			Toxic Substances Regulations 2012 (SOR/2012-285)				
1336-36-3 53469-21-9 and Various	Halogenated biphenyls, including Polycholorinated biphenyl (PCB) (both Switzerland)	Prohibited	Canada, Switzerland, and the	Switzerland: ChemRRV (Chemikalien-Risikoreduktions- Verordnung) Art. 3 Appendix				
Various	Halogenated terphenols, including Polychlorinated terphenyl (PCT)	Floribled	EU	1.1 European Union POPs				
Various	Halogenated naphthalenes			Regulation (EC) No. 850/2004 Annex I				
Various Various	Halogenated diarylalkanes Halogenated diphenyl			Alliex				
various	methanes							
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	Not used (textiles and leather) ≤ 5mg/kg (wood based materials)	Switzerland	Switzerland: ChemRRV (Chemikalien-Risikoreduktions- Verordnung) Art. 3 Appendix 1.1 and Appendice 2.17		Spain, Egypt, Denmark, Germany, the Netherlands, Austria, Norway, and South Korea, banned in GB 25036 and GB 25038		
25167-83-3 935-95-5	Tetrachlorophenol (TeCP), its salts and compounds 2,3,5,6-TeCP	Not detected (0.5 mg/kg)	China	GB 25036/ GB 25038	GB/T 184141.1 or GB/T 18414.2	Switzerland	2,3,5,6-TeCP is banned in China GB 25036 and GB 25038 for textikle and synthetic leather materials. limit: Not detected (0.5 mg/kg)	
624-49-7	Dimethyl Fumarate	Prohibited	EU	European Union REACH regulation (EC) No. 1907/2006 Annex XVII, limit 0.1 mg/kg	CNS 15331 Annex C	South Korea (KC Mark, for more information review Appendix II), Norway, and Taiwan	0.1 mg/kg - China (GB 30585-2014) will apply on 1 Jan 2016)	

Phthalates								
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
	Phthalates (Except those listed below, DEHP, DNOP, BBP, DBP, DINP, DIDP)	0.05% by weight	Denmark	Denmark Statutory Order 855 of 05/09/2009			Applies to childcare articles for children 0-3 years old.	
117-81-7	Di (2-ethylhexyl) phthalate (DEHP)			Self Regulatory Confirmation Notice (Notice No. 2007-34) issued by Korean Agency			In South Korea, applies to baby clothing (less than 24 months) In the U.S., DEHP, DBP and BBP are restricted in child care articles (3 years and under) that facilitate sleep or feeding	
85-68-7	Benzyl Butyl phthalate (BBP)			for Technology and Standards. U.S. Consumer Product Safety Improvement Act (PL 110- 787). Schedule 1 of the Canadian Hazardous Products Act (Phthalates regulation SOR/ 2010- 298) European Union			Unclear which footwear and apparel articles are covered In the EU, DEHP, DBP and BBP are restricted for child care articles intended to facilitate sleep, relaxation, hygiene, the feeding of children or sucking on the part of children	
84-74-2	Di-n-butyl phthalate (DBP)	U.S. and Canada each phthalates 0.1% by weight	South Korea.	REACH Regulation (EC) no. 1907/2006 Candidate List for DEHP, BBP, DBP	1907/2006 Candidate ist for DEHP, BBP, DBP CPSC-CH- CPSC-CH- European Union (European Examples: Child bibs, infant sleeping Union REACH Regulation No. 1907/2006 Annex XVII), DEHP, BBP, and DBP are listed up DEHP, BBP, and DBP a	Examples: Child bibs, infant sleeping bag DEHP, BBP, and DBP are listed under REACH Annex XIV with sunset dates in February 2015		
117-84-0	Di-n-octyl phthalate (DNOP)	DEHP+DBP+BBP 0.1% by weight DINP+DIDP+DNOP: 0.1% by weight	U.S., Denmark, and the EU	Restricted in the EU	Test method for EU: ISO14389: 2014	Mark, for more information review Appendix II), Egypt, Turkey, and Denmark DEHP, BBP, DBP are listed on the EU REACH Candidate List	t, Act Part 1 (RCW 70.240.020) restricts the six phthalates. The sum of DEHP, BBP, DBP, DINP, DIDP, and DnOP must not	
68515-48-0 28553-12-0	Di-isononyl phthalate (DINP)			(REACH Annex XVII) for childcare articles which can be placed in the mouth by children intended to facilitate sleep, relaxation,			In the US, DINP, and in the EU DINP, DnOP, and DIDP are restricted in toys and child care articles that can be placed in the mouth China - GB 30585-2014 regulate Infant's footwear (0-36 months, footwear ≤170mm): DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% by weight	
68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)			hygiene, the feeding of children or sucking on the part of children			Children's footwear (36 months – 14 years, footwear: >170mm, but ≤ 250mm): DEHP, DBP, BBP: 0.1% By weight US CPSC prohibits DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, DCHP in children's toys and child care articles (16 CFR 1307)	

Phthalates								
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
131-11-3	Dimethyl phthalate (DMP)	0.1% (sum) by weight	Taiwan	CNS 15503 (children's	CNS 15138			
84-66-2	Diethyl phthalate (DEP)	0.1 70 (3um) by weight	raiwaii	products)	0110 10100			
84-69-5	Diisobutyl phthalate (DIBP)							
68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)							
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)			European Union REACH Regulation (EC) no. 1907/2006 Candidate List				
776297-69-9	N-pentyl-isopentyl phthalate (NPIPP)				CPSC-CH-			
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	0.1% w/w per article (each)	European Union		C1001-09.3 or GB/T 22048- 2008 or ISO14389: 2014			
84-75-3	Di-n-hexyl phthalate (DnHP/DHP)							
131-18-0	Dipentyl phthalate							
68515-50-4	1,2- Benzenedicarboxylic acid. Dihexyl ester. Branched and linear							
68515-51-5 68648-93-1	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)							

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			
87-68-3	Hexachlorobutadiene			EU: POP regulation 850/2004 ANNEX I							
		100 ppm	EU, Switzerland, and Canada	Switzerland: ORRchem annex 1.1 (art.3)							
			54.23	Canada Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)							
71-55-6	Carbon Tetrachloride 1,1,1-Trichloroethane	0.1% (mass)- Each	Switzerland, EU, 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)	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies to substances and mixtures) only for Pentachloroethane, 1,1,1,2-Tetrachloroethane, Chloroform, 1,1,2- Trichloroethane, 1,1- Dichloroethylene, and Trichloroethylene Regulation (EC) No. 1005/2009					
76-01-7	Pentachloroethane					Denmark					
630-20-6	1,1,1,2-Tetrachloroethane			Germany - Chemikalienverbot		European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies to substances and mixtures)					
79-34-5	1,1,2,2-Tetrachloroethane	-					Verordnung (Prohibition of Chemicals Ordinance),	Headspace for	only for		
67-66-3	Chloroform]		section 16 components 1,1,	1,1,1,2-Tetrachloroethane,						
79-00-5	1,1,2-Trichloroethane	0.1% (mass)- Each	EU and Japan	Japan Law for the Control of	(industry practice - not specified by the regulation)	only for Pentachloroethane, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Chloroform, 1,1,2- Trichloroethane, 1,1-					
75-35-4	1,1-Dichloroethylene			Household Products Containing Harmful	,	Dichloroethylene, and Trichloroethylene					
79-01-6	Trichloroethylene			Substances		Regulation (EC) No. 1005/2009					
127-18-4	Tetrachloroethylene (Japan only)					Denmark					
	Volatile organics	≤20 g/m²	China	GB 21550-2008 (PVC artificial leather)	GB 21550 Clause 5.5		For GB 21550, it is not banned for chlorinated solvents, but all Volatile Organic, by measuring the weight difference of a PVC leather in an oven at 100°C for 6 hours This regulation applies to all textiles and footwear products containing PVC artificial leather				

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 (μ g/g).

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

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

Appendix I	Reporting: Appendix I lists 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										
101-77-9*	4,4'- Diaminodiphenylmethane (MDA)										
81-15-2*	5-tert-butyl-2,4,6-trinitro-m-xylene										
79-06-1	Acrylamide										
85535-84-8	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)										
NA	Aluminosilicate Refractory Ceramic Fibres Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	over 0.1%	EU	REACH SVHC (Substances of Very High Concem)		Washington (E.U)					
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	over 0.1%	EU	REACH SVHC (Substances of Very							
90640-82-7	Anthracene oil, anthracene-low			High Concem)							

85-68-7*	Benzyl butyl phthalate (BBP)	over 0.1%	EU	REACH SVHC	Washington (U.S.)
117-81-7*	Bis (2-ethylhexyl)phthalate (DEHP)	Over 0.176	LO	(Substances of Very	wastilligion (0.5.)
56-35-9	Bis(tributyltin)oxide (TBTO)				
10043-35-3 / 11113- 50-1	Boric acid	over 0.1%	EU	REACH SVHC (Substances of Very	
7646-79-9	Cobalt dichloride			High Concern)	
1303-28-2*	Diarsenic pentaoxide				
1327-53-3*	Diarsenic trioxide				
84-74-2*	Dibutyl phthalate (DBP)	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)	Washington (US)
84-69-5*	Diisobutyl phthalate				
1303-96-4/ 1330-43-4/ 12179-04-3	Disodium tetraborate, anhydrous				
25637-99-4*/3194-55- 6* (134237-50-6)*	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	-			
(134237-50-6) (134237-51-7)* (134237-52-8)*	Alpha-hexabromocyclododecane				
	Beta-hexabromocyclododecane				
	Gamma-hexabromocyclododecane				
7758-97-6*	Lead chromate			REACH SVHC	
12656-85-8*	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	over 0.1%	EU	(Substances of Very High Concern)	
7784-40-9	Lead hydrogen arsenate				
1344-37-2*	Lead sulfochromate yellow (C.I. Pigment Yellow 34)				
65996-93-2	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				

7738-94-5* 13530-68-2* 1333-82-0* 513-79-1 71-48-7 10141-05-6 10124-43-3 71888-89-6	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. Chromium trioxide Cobalt(II) carbonate Cobalt(II) diacetate Cobalt(II) sulphate 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich					
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			REACH SVHC		
7789-06-2	Strontium chromate	over 0.1%	EU	(Substances of Very High Concern)		
111-15-9	2-Ethoxyethyl acetate					
1163-19-5	Bis(pentabromophenyl) ether (deca-BDE)					
72629-94-8	Pentacosafluorotridecanoic acid					
2058-94-8	Henicosafluoroundecanoic acid					
307-55-1	Tricosafluorododecanoic acid					
376-06-7	Heptacosafluorotetradecanoic acid					
NA	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated – covering well defined substances and UVCB substances, polymers and homologues					
NA	4-nonylphenol, branched and linear – substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bonded in position 4 to phenol, covering also UVCB and well-defined substances which include any of the individual isomers or a combination thereof					

123-77-3	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)						
85-42-7, 13149-00-3, 14166-21-3	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]						
25550-51-019438-60- 9, 48122-14-1, 57110- 29-9	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4][The individual isomers [2], [3] and [4] (including their cisand trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
625-45-6	Methoxy acetic acid			r light Concern)			
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear						
605-50-5	Diisopentylphthalate (DIPP)						
776297-69-9	N-pentyl-isopentylphthalate						
629-14-1	1,2-Diethoxyethane						
68-12-2	N,N-dimethylformamide; dimethyl formamide						
683-18-1	Dibutyltin dichloride (DBTC)						
51404-69-4	Acetic acid, lead salt, basic						
1319-46-6	Trilead bis(carbonate) dihydroxide						
12036-76-9	Lead oxide sulfate						
69011-06-9	[Phthalato(2-]dioxotrilead						
12578-12-0	Dioxobis(stearato)trilead						
91031-62-8	Fatty acids, C16-18, lead salts						

13814-96-5	Lead bis(tetrafluoroborate)					
20837-86-9	` ,					
10099-74-8	Lead cynamidate Lead dinitrate					
1317-36-8						
	Lead monoxide (lead oxide)					
1314-41-6	Orange lead (lead tetroxide)					
12060-00-3 12626-81-2	Lead titanium trioxide Lead titanium zirconium oxide					
12065-90-6	Pentalead tetraoxide sulphate					
8012-00-8	Pyrochlore, antimony lead yellow					
68784-75-8	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	over 0.1%	EU	REACH SVHC (Substances of Very		
11120-22-2	Silicic acid, lead salt	Over 0.176		High Concern)		
62229-08-7	Sulfurous acid, lead salt, dibasic					
78-00-2	Tetraethyllead					
12202-17-4	Tetralead trioxide sulphate					
12141-20-7	Trilead dioxide phosphonate					
110-00-9	Furan					
75-56-9	Methyloxirane (Propylene oxide)					
64-67-5	Diethyl sulphate					
77-78-1	Dimethyl sulphate					
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine					
88-85-7	Dinoseb (6-sec-butyl-2,4-dinitrophenol)					
838-88-0	4,4'-methylenedi-o-toluidine					
101-80-4	4,4'-oxydianiline and its salts					
60-09-3	4-Aminoazobenzene;					
<u> </u>			1		1	

95-80-7	4-methyl-m-phenylenediamine (2,4-toluene-diamine)						
	6-methoxy-m-toluidine						
120-71-8	(p-cresidine)						
92-67-1	Biphenyl-4-ylamine						
97-56-3	o-aminoazotoluene						
95-53-4	o-Toluidine;						
79-16-3	N-methylacetamide						
106-94-5	1-bromopropane; n-propyl bromide						
7778-44-1	Calcium Arsenate						
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)						
7778-39-4	Arsenic acid						
90-04-0	2-methoxyaniline; o-anisidine						
3687-31-8	Trilead diarsenate		EU				
107-06-2	1,2 Dichloroethane			REACH SVHC			
49663-84-5	Pentazinc chromate octahydroxide	over 0.1%		(Substances of Very			
25214-70-4	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	Over 0.178		High Concern)			
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)						
110-71-4	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)						
561-41-1	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]						
50-32-8	Benzo[def]chrysene (Benzo[a]pyrene)						
			•	•		•	

90-94-8	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)					
2580-56-5	[4-[[4-anilino-1-naphthyl]][4- (dimethylamino)phenyl]methylene]cy clohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027- 5) or Michler's base (EC No. 202- 959-2)]					
101-61-1	N,N,N',N'-tetramethyl- 4,4'methylenedianiline (Michler's base)					
6786-83-0	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.l. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]					
1303-86-2	Diboron trioxide			REACH SVHC		
75-12-7	Formamide	over 0.1%	EU	(Substances of Very		
17570-76-2	Lead(II) bis(methanesulfonate)			High Concern)		
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(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien- 1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]					
7440-43-9	Cadmium					
3825-26-1	Ammonium pentadecafluorooctanoate (APFO)					
335-67-1	Pentadecafluorooctanoic acid		1			
131-18-0	Dipentyl phthalate (DPP)				1	

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NA	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]					
1306-19-0	Cadmium oxide					
130623-6	Cadmium sulphide					
573-58-0	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)					
1937-37-7	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	over 0.1%	EU	REACH SVHC (Substances of Very		
84-75-3	Dihexyl phthalate			High Concern)		
96-45-7	Imidazolidine-2-thione (2-imidazoline-2-thiol)					
301-04-2	Lead di(acetate)					
25155-23-1	Trixylyl phosphate					
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear					
10108-64-2	Cadmium chloride					
NA	Sodium perborate; perboric acid, sodium salt					
7632-04-4	Sodium peroxometaborate					
15571-58-1	2-ethylhexyl 10-ethyl-4,4-dioctyl-7- oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)					

- 7790-79-6 10124-36-4, 31119-53-6 3846-71-7 25973-55-1 68515-51-5, 68648-93-1	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 1,2-benzenedicarboxylic acid, di-C6-	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)		
1120-71-4	1,3-propanesultone					
3864-99-1	2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol (UV- 327)					
36437-37-3	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)					
98-95-3	Nitrobenzene					
375-95-1; 21049-39-8; 4149-60-4	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts					

			1	1	1	1
50-00-0	Formaldehyde	5 ppm				
62-53-3	Aniline	1 ppm				
62-75-9	N-Nitrosodimethylamine	1 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	United States	Washington Children's		
79-34-5	1,1,2,2,-Tetracholoroethane	1 ppm	Ormod Oldios	Safe Product Act		
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		Machineton Childrenia		
95-80-7	2,4-Diaminotoluene	10 ppm	United States	Washington Children's Safe Product Act	Candidate List	
99-76-3	Methyl paraben	30 ppm				
99-96-7	p-Hydroxybenzoic acid	10 ppm	United States	Washington Children's		
100-41-4	Ethylbenzene	1 ppm		Safe Product Act		
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	United States	Washington Children's Safe Product Act	Candidate List	

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		Washington Children's			
118-74-1	Hexachlorobenzene	30 ppm	United States	Safe Product Act			
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	0.5 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		Candidate List	
140-67-0	Estragole	10 ppm					
149-57-5	2-Ethylhexanoic acid	1 ppm	United States	Washington Children's Safe Product Act			
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	United States	Washington Children's Safe Product Act	Candidate List	
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)	0.5 ppm	United States	Washington Children's Safe Product Act		
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	United States	Washington Children's Safe Product Act	Candidate List	
7440-48-4	cobalt & cobalt compounds	1 ppm	United States	Washington Children's Safe Product Act		
25013-16-5	Butylated hydroxyanisole, BHA	10 ppm				
25637-99-4	Hexabromocyclododecane	10 ppm	United States	Washington Children's Safe Product Act	Candidate List	
26761-40-0	Diisodecyl phthalate (DIDP)	50 ppm		Washington Children's		
28553-12-0	Diisononyl phthalate (DINP)	50 ppm	United States	Safe Product Act		
13674-87-8	tris(1,3-dichloro-2-propyl)phosphate	50ppm				

Appendix II	Labelling: Appendix II lists regul	lations which have a labeling req	uirement that are	not necessarily of	otherwise listed in the R	SL.	
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
	Formaldehyde (0 - 36 months)	20 ppm				Age range off children's products in KC mark has	
50-00-0	Formaldehyde (3 - 12 years)	75 ppm (innerwear), 300 ppm (outerwear); All Childrens' products: Max 75 ppm	Korea			been revised to: 3-14 years old Formaldehyde for children products (3-14 years): 75 mg/kg	
	Azo Dyes	30 ppm		Safety Quality Mark Act (KC		Innerwear and midwear (other than infant and	
56573-85-4	Tributyltin (TBT)	0.5ppm for infant's 1.0 ppm for Children's		Mark)		children product): 75 mg/kg; outerwear (other than infant and children	
1002-53-5	Dibutyltin (DBT) (0 - 36 months)	1 ppm				products): 300 mg/kg TBT for KC Mark infant product (0-36 months):	
624-49-7	Dimethyl Fumarate	0.1 ppm				0.5 mg/kg; Others: 1.0 mg/kg	
117-84-0	Di-n-octyl phthalate (DNOP)						
117-81-7	Di (2-ethylhexyl) phthalate (DEHP)					Phthalates requirement	
85-68-7	Benzyl Butyl phthalate (BBP)					in KC Mark: Baby products (0-36	
84-74-2	Di-n-butyl phthalate (DBP)					months):	
68515-48-0 28553-12-0	Di-isononyl phthalate (DINP)	0.10%	Korea	Safety Quality Mark Act (KC Mark)		0.1% (sum of DEHP, DBP, BBP, DIDP, DINP, DNOP)	
68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)			ay		Children product (3-14	
32534-81-9	Penta-bromodiphenyl ether (pentaBDE) (0 - 12 years)					years): 0.1% (sum of DEHP, DBP, BBP)	
32536-52-0	Octa-bromodiphenyl ether (octaBDE) (0 - 12 years)					DBF, BBF)	
68112-30-1	TDBPP (0 - 12 years)						
	Disperse Dyes	Not Detected Max. 50 ppm Polyester, Nylon, Acrylic, Acetate, Triacetate, Vinyl chloride	Korea	Safety Quality Mark Act (KC Mark)		Disperse dyes only applies to baby product, children children and innerwear	
7439-92-1	Lead (Pb) (0 - 12 years)	40 ppm- 100ppm (lead in substrate) 40 ppm- 90ppm (lead in coating)	Illinois, U.S.A	Lead Posioning Prevention Act		Toys with paints, child care articles, children's jewellery	
	Lead (Pb) (above 16 years)	600 ppm				jewenery	
	NP/NPEO	100ppm	Korea	Safety Quality Mark Act (KC			

Change Log from RSL 18 to R	SL 19
Arylamines	Update: Most recent Textile test method ISO 14362-1 : 2017;
	Add: Vietnam Circular no.21/2017/TT-BCT- going into force May 1, 2018;
	Update: Most recent Textile test method for AAB ISO 14362-3 : 2017
Asbestos	n/a
Dioxins & Furans	Updated regulation: § 3 Abs 2, Anlage 1 Eintrag 2 ChemikalienverbotsVO
Disperse Dyes	n/a
Flame Retardants	Updated test method for Chlorinated paraffins (C10-C13): ISO 18219: 2015;
	Add Switzerland: ORRChem annex 1.1 (Art.3) for Chlorinated paraffins (C10-C13);
	Add
	1.Heptabromodiphenyl ether (HeptaBDE) Cas.nr: 446255-22-7 207122-16-5, 68928-80-3
	2.Hexabromodiphenyl ether (HexaBDE) Cas.nr 68631-49-2, 207122-15-4, 36483-60-0
	3.Tetrabromodiphenyl ether (TetraBDE) Cas.nr 5436-43-1, 40088-47-9
	4. Hexabromocyclododecane (HBCDD) Cas.nr 25637-99-4, 3194-55-6, 134237-50-6,134237-51-7, 134237-52-8
Fluorinated Greenhouse Gases	n/a
Metals	n/a
Misc.	Add: SWITZERLAND: ORRChem textiles annex 1.13 (Art.3) to cover Blue Colorant
	Add: European Union REACH Regulation (EC) No 1907/2006 Annex XVII entry 68 (will apply from 4 July 2020) to cover Perfluorooctanoic acid (PFOA)
Organotin Compounds	n/a
Pesticides	Add: Pentachlorobenzene under Switzerland: ORRChem textiles annex 1.1 (Art.3)
Phthalates	Add: EU (REACH Annex XVII) for childcare articles which can be placed in the mouth by children intended to facilitate sleep, relaxation, hygiene, the feeding of children or sucking on the part of children to cover DINP, DIDP and DNOP
	Updated test method: Test method for EU: ISO14389: 2014
	Add: Diisobutyl phthalate (DIBP) Cas.nr 84-69-5 which is on the Candidate List
	Add: test method: European test method ISO14389: 2014
	Add: CPSC prohibits DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, DCHP in children's toys and child care articles (16 CFR 1307)
	Remove: DIDP and DnOP following CPSC decision to lift the interim ban from the CPSIA. The final rule removes the interim prohibition regarding DNOP and DIDP. CPSC has determined that these phthalates do not cause adverse effects on male reproductive development, and other risks attendant to their use are low.
Solvents	Add: Hexachlorobutadiene restricted for articles in the EU: POP regulation 850/2004 ANNEX I, also restricted in Switzerland: ORRchem annex 1.1 (art.3) and in Canada Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)
	Add: Carbon Tetra Chloride and 1,1,1-Trichloroethane are also restricted in Switzerland
Appendix I: Reporting	n/a
Appendix II: Labelling	Add: NP/NPEO regulated by Korea Safety Quality Mark Act (KC Mark)

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