

RESTRICTED SUBSTANCES LIST (RSL) TWENTIETH EDITION

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Contents

Introduction	
Methodology	2
About AAFA	4
Arylamines	5
Asbestos	6
Dioxins & Furans	7
Disperse Dyes	
Flame Retardants	10
Fluorinated Greenhouse Gases	13
Metals	14
Miscellaneous	18
Organotin Compounds	21
Pesticides	22
Phthalates	24
Solvents	26
Glossary of Terms	28
Appendix I - Reporting ¹	30
Appendix II- Labeling ²	42
Change Log	44
Disclaimer	45

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, we are 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 more than \$400 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
91-22-5	Quinoline	50mg/kg	EU	Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006				
60-09-3	4-Amino azobenzene							
97-56-3	o-Aminoazotoluene							
92-67-1	4-Aminodiphenyl					South Korea (KC Mark, for more information review		
99-55-8	2-Amino-4-nitrotoluene					Appendix II), and Indonesia		
90-04-0	o-Anisidine			Regulations below apply to all				
92-87-5	Benzidine			Arylamines listed in this RSL	Textiles (EU): ISO 14362-1			
106-47-8	p-Chloroaniline				:2017	Switzerland, Norway, and Taiwan, Turkey		
95-69-2	4-Chloro-o-toluidine				Leather (EU): EN ISO 17234- 1:2015	"Indonesia: No.72/M- IND/PER/7/2012	4- Amino azobenzene is not	
120-71-8	p-Cresidine	Reported as not detected.		European Union REACH Regulation (EC) No. 1907/2006		SNI7617:2013	listed in GB20400-2006;	
615-05-4	2,4-Diaminoanisole	China restriction limit:		Annex XVII	Test methods specific for 4- Aminoazobenzene		Only 23 arylamines are subject to this standard	
101-77-9	4,4'-Diaminodiphenylmethane	Textiles 20ppm			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:		GB10401-2010		CNS 15503 (children products)		
101-14-4	4,4'-Methylene-bis-(2- chloroaniline)	restricts AZO dyes and Formaldehyde		The National Standard of the	Textiles (China) GB/T 17592-2011	CNS 8634 (leather casual shoes) CNS 10632 (leather shoes)"	GB 30585-2014 (Safety technical specification for	
91-59-8	2-Naphthylamine	Azo dyes limit: 30 ppm		People's Republic of China GB20400-2006-Leather and Fur		, ,	children's footwear) - will 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/-		
95-68-1	2,4-Xylidine (China, Japan only)					2:2011		
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	Not dots of	European	European Union REACH	minimum magnification1- 250, attached; ratio of fiber	Switzerland and Norway, and		
12001-29-5	Chrysotile	Not detected	Union		length to diameter is at polarized light filter least 3:1-	the LLS		
12001-28-4	Crocidolite			Annex XVII	(industry practice - not specified by the regulation)			
77536-68-6	Tremolite							

Dioxins & Fura	nns							
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	<u> </u>						
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	(industry practice-			
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin		Germany	Abs 2, Anlage 1 Eintrag 2	not specified by the			
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	0		ChemikalienverbotsVO	regulation)			
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Sum of Groups 1, 2 & 3: 100 µg/kg						
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	100 μg/Ng						
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	7			1			

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
39156-41-7	4-methoxy-m-phenylene diammonium sulphate; 2,4- diaminoanisole sulphate	30 mg/kg	EU					
3165-93-3	4-chloro-o-toluidinium chloride	30 mg/kg	EU	Amendment 2018/1513 to Annex XVII to				
548-62-9	[4-[4,4'-bis(dimethylamino)benzhydrylide ne]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)	50 mg/kg	EU	- Regulation (EC) No 1907/2006				
2475-45-8	Disperse Blue 1						The following disperse	
12222-75-2	Disperse Blue 35						dyes are also restricted in Korea KC Mark:	
12223-01-7	Disperse Blue 106						iviai K.	
61951-51-7	Disperse Blue 124	Not Detected (below detection limits - see test	Germany	German Food, Feed and	§64 LFGB B82.02-10 DIN 54231	South Korea (applicable to babywear, children's	Disperse Blue 3 Disperse Blue 7 Disperse Blue 26,	
730-40-5	Disperse Orange 3	method)	Germany	Commodities Law §30 (LFGB §30)	KS K 0736:2014	wear and adult underwear)	Disperse Blue 102 Disperse Orange 1	
13301-61-6	Disperse Orange 37/59/76						Disperse Yellow 1 Disperse Yellow 9 Disperse Yellow 20	
2872-52-8	Disperse Red 1						Disperse Yellow 39 Disperse Yellow 49 Disperse Red 11	
2832-40-8	Disperse Yellow 3						Disperse Red 17	

	Carcinogenic 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					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				304 El OB 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	3							
CAS Number	Chemical Name/Color Index Name	/Maximum Limit on Final Product or Tested	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						
5436-43-1, 40088-47-9	Tetrabromodiphenyl ether (TetraBDE)		Switzerland	POP regulation and in 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						
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	
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)	more information review Appendix II)	underwear [applicable to textile 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 European Union REACH Regulation (EC) No. 1907/2006 Candidate List Canada: Regulation Amending Schedule 2 Item 16 to the Canada Consumer Product Safety Act (TCEP) Effective June 22, 2014 The Canada requirement is only applied for children's products (< 3 years) made of polyurethane foam	
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	
1163-19-5	Decabromodiphenyl ether (decaBDE)	0.1% by weight	EU	Amendment 2017/227 to Annex XVII in (EC) No 1907/2006				

Fluorinated Green	house 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 - CH₃F							
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 - CH₂FCF 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							
431-89-0	HFC-227ea - C ₃ HF ₇				Headspace for		Regulation (EU)	
677-56-5	HFC-236cb - CH ₂ FCF ₂ CF ₃	Prohibited		European Union	uropean Union (EU) No 517/2014 components (industry practice - not specified by the regulation)			
431-63-0	HFC-236ea - CHF ₂ CHFCF ₃	Pronibited	Union				517/2014	
690-39-1	HFC-236fa - C ₃ H ₂ F ₆							
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							
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
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)	90 PPM	Korea	Korea Certification Mark (KC Mark, for more information review Appendix II)		U.S., Egypt, Taiwan, Denmark Statutory Order no. 856 of September 5, 2009	Applies to textile products for children. (0 - 12 years) CPSC determined textiles are exempt from testing since they are unlikely to contain lead in excess of 100ppm Determination does not include post-	
7439-92-1	Lead (Pb)			GB 30585-2014 (Safety technical	QB/T 4340 Footwear - Chemical test method - total heavy metal content -		production prints and surface coatings Applies to children's footwear (≤14 years old) , Size of the shoes <250 mm (exclude children's rubber shoes)	
7440-43-9	Cadmium (Cd)	100 mg/kg	China	specification for children's footwear)	Inductively coupled plasma emission spectroscopy			
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	
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)	China	FZ/T 81014-2008 - Infant's wear (woven)	GB/T 17593.4 TextilesArsenic and Mercury		Applies to woven infant wear and adomment products (≤ 24months) only FZ/T 73025-2013 (Knitted garment and	
7440-38-2	Arsenic	0.2 ppm (leachable)		FZ/T 73025-2013 (Knitted garment and adornment for infant)	and welcury		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.	

7440-43-9 7440-38-2	Cadmium (Cd) Arsenic (As)	Prohibited Prohibited	Taiwan Taiwan	CNS 15290 CNS 15290	CNS 4797-2 CNS 4797-2	EU, and Turkey EU, Egypt, and South Korea	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 For all textile products and textile accessories	
				Retric	tions for Metals			
7439-92-1	Lead (Pb)	0.2 ppm (leachable)	Indonesia	Regulation, No. 07/M-	ISO 105-E04 followed by ICP-		Infant apparel (0-36 months)	
7440-50-8	Copper	25 ppm (leachable)	illuollesia	IND/PER/2/2014	OES/AAS analysis		illiant apparer (0-30 months)	
7440-36-0	Antimony	30ppm (leachable)	China					
7440-43-9	Cadmium (Cd)	0.1 ppm (leachable)		FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.4 Textiles- Determination of heavy metals Part	EU Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006	Applies to knitted textile products,	
7440-48-4	Cobalt	1.0ppm (leachable)		and adornment for imant)	1: Atomic absorption spectrophotometry		including clothing, bedding and accessories for infants Infant is a child ≤ 36 months old or ≤ 100 cm in height	
7440-02-0	Nickel (Ni)	1.0 ppm (leachable)					1	
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			
7440-38-2	Arsenic (As)							
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 spectroscopy		Applies to children's footwear (≤14 years old) , Size of the shoes <250 mm (exclude children's rubber shoes)	
7440-43-9	Cadmium (Cd)				ороскосору			
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 (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	
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=1
				Restri	ctions for Leather	<u> </u>		,
7440-38-2	Arsenic	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 spectroscopy		Applies to children's footwear (≤14 years old) , Size of the shoes <250 mm (exclude children's rubber shoes)	Extractable Content: EN71.3 Total Content: CPSC-CH- E1002-08.1 (http://www.gafti.org/tem plate?series=4&article=1 1)
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU, Egypt, China, and South Korea	For all textile products and textile accessories	,
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 QB/T 22807 Leather and fur—Chemical tests—Determination of chromium VI content	South Korea, Taiwan, China GB 30585-2014 (Safety technical specification for children's footwear), and Egypt	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII requirement: < 3 ppm	
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., GB 30585-2014 (Safety technical specification for children's footwear)	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 to contain lead in excess of 100ppm Determination does not include finishes and surface coatings	
				Restrictions fo	r Plastics and Plastic Film			
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.	

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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	
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	
18540-29-9	Chromium (Cr6+) hexavalent	10ppm	Taiwan	CNS 15503	CNS 15331 Annex A CNS 15331 Annex B		For children's products	
				Restrictions for Su	urface Coatings and Printing			
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), Egypt, and European Union REACH Regulation (EC) No. 1907/2006 Annex XVII Total Lead: 500 ppm Rate of lead release of Lead: ≤0.05 μg/cm2/h (0.05 μg/g/h)	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=1 1)
				Solub	le Heavy Metals			
	China: PVC artificial leather	Lead: 90 mg/kg Cadmium: 75 mg/kg	China	GB 21550-2008	GB 21550 Clause 5.4			
	Egypt: children less than 36 months footwear, size 26 and less Taiwan: Children products up to age 14	Antimony: 30 mg/kg Arsenic: 0.2 mg/kg Barium: 1000 mg/kg Cadmium: 0.1 mg/kg Chromium: 2 mg/kg for Children/ 200 mg/kg (for others) Lead: 0.2 mg/kg Mercury: 0.02 mg/kg Selenium: 500 mg/kg	Egypt Taiwan	ES 7322/2011 CNS 15503 (children's product)	EN 71-3 CNS 4797-2 ISO 17072-1			
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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
50-00-0	Formaldehyde 0-36 months old	Not Detected (detection limit is 16 mg/kg) (textiles)	Japan	Japanese Law 112	Textile: ISO 14184-1 or,JIS 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	
	>36 months old (with direct skin contact)	75 ppm (detection limit is 16 mg/kg) (textiles)	Japan	Japanese Law 112	CNS 15579	Onlina, Russia, Filliatiu, Norway, France, Netherlands, Austria, Lithuania, Germany, New Zealand, South Korea, Vietnam, Taiwan, Egypt, Indonesia and US Minnesota	textile with a limit of 300ppm 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	
	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	≤ 300 ppm	China		Textile: GB/T 2912.1-2009			
	on children's athletic shoes) Formaldehyde (Textiles and artificial leather on upper, lining and insole of vulcanized shoes- infant shoes	≤ 75 ppm	China		Leather: GB/T 19941-2005 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			
71-43-2	Benzene	5 mg/kg	EU	Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006				
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	

1999-339 Bise Colored Pedicities 11's by weight for LL	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 3825-26-1 are listed under European Union REACH Regulation (EC) no. 1907/2006 Candidate List	
100gpm	118685-33-9	Blue Colorant		European union	European Union REACH Regulation (EC) No 1907/2006 Annex XVII		Switzerland: ORRChem	applies to substances and mixtures only. (Egypt applies to finished textile	
275-0-9-9 Nonyl phraciethogidates	25154-52-3	Nonyl phenol	1000ppm		(EC) No 1907/2006 Annex XVII and European Union REACH Regulation				
# 1-0 - 8.5 (riset six contact) # 1-0 - 9.0 (without different six contact) # 1-0 - 9.0 (with six contact) # 1-0	2795-39-3	Nonyl phenolethoxylates	100ppm	European Union	(EC) No 1907/2006 Annex XVII entry 46a (will apply from 3 Feb 2021) and European Union REACH Regulation	Methods for the Detection and Determination of alkyl phenol ethoxylates	below age 12 only), and	applicable to textile articles which can reasonably be expected to be washed in	
Innervate Inne			4.0 - 8.5 (direct skin contact) 4.0 - 9.0 (without direct skin	China	GB 18401-2010	GB/T 7573			
not less than 3.5 Egypt E6 6535/2008 ISO 4045		pH value	innerwear, midwear) 4.0-9.0 (outerwear, bedding)	South Korea	KC Mark				
1 mg/kg				Egypt	ES 6535/2008	ISO 4045			
N-Nitrosamines 62-75-9 N-Nitrosodiethylamine 55-18-5 N-Nitrosopyrrolidine 924-16-3 N-Nitrosopyrrolidine 100-75-4 N-Nitrosopyrrolidine 930-55-2 1-Nitrosopyrrolidine 930-55-2 1-Nitrosopyrrolidine 161-64-6 N-Nitroson-kethylamine 161-64-6 N-Nitroson-kethylamine 161-64-6 N-Nitroson-kethylamine 161-64-8 N-Nitroson-kethylamine 161-63 N-Nitroson-kethylamine 161-64-8 N-Nitroson-kethylami	75.04.4		1 mg/kg	Egypt	ES 7322/2011	§64 LFGB B80.32-1:1981-11 /			
62-75-9 N-Nitrosodiethylamine 55-18-5 N-Nitrosodiethylamine 621-64-7 N-Nitrosopiperidine 924-16-3 N-Nitrosopyrrolidine 100-75-4 N-Nitrosopyrrolidine 100-75-2 I-Nitrosopyrrolidine 930-55-2 I-Nitrosopyrrolidine 930-55-2 I-Nitrosopyrrolidine 614-00-6 N-Nitroson-methylamiline 612-64-6 N-Nitroson-tethylamiline 612-6	75-01-4	Vinyi Cilionde Monoritei (VCM)	5 mg/kg	China	GB 21550-2008	GB/T 4615-1984	Verordning" German Consumer Goods Ordinance		
55-18-5 N-Nitrosodibutylamine 621-64-7 N-Nitrosopyrrolidine 924-16-3 N-Nitrosomorpholine 100-75-4 N-Nitrosomorpholine 930-55-2 1-Nitrosopyrrolidine 930-55-2 1-Nitrosopyrrolidine 159-89-2 Nitrosomorpholine 612-64-6 N-Nitroso-N-methylaniline 612-64-8 N-Nitroso-N-methylaniline 612-64-8 N-Nitroso-N-methylaniline 700-75-4 N-Nitroso-N-	N-Nitrosamine:	S							
621-64-7 N-Nitrosopiperidine 924-16-3 N-Nitrosopyrolidine 100-75-4 N-Nitrosopyrolidine 100-75-4 N-Nitrosopyrolidine 930-55-2 1-Nitrosopyrolidine 930-55-2 Nitrosomorpholine 614-00-6 N-Nitroso-N-methylaniline 612-64-6 N-Nitroso-N-methylaniline 91-20-3 Naphthalene (Taiwan only) 91-20-3 Naphthalene (Taiwan only) 928-96-8 Acenaphthylene (Taiwan only)	62-75-9	N-Nitrosodiethylamine							
924-16-3 N-Nitrosopyrrolidine 100-75-4 N-Nitrosopyrrolidine 100-75-4 N-Nitrosopyrrolidine 930-55-2 1-Nitrosopyrrolidine 59-89-2 Nitroson-N-methylaniline 612-64-6 N-Nitroso-N-methylaniline 612-64-8 N-Nitroso-N-ethylaniline 91-20-3 Naphthalene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only)	55-18-5	N-Nitrosodibutylamine							
Not detected (detection limit: 0.5 mg/kg) Reg. 25038-2010 GB 25038-2010 GB 30585-2014 GB 30585-201	621-64-7	N-Nitrosopiperidine							
100-75-4 N-Nitrosomorpholine (detection limit: 0.5 mg/kg) 930-55-2 1-Nitrosopyrrolidine 930-56-2 Nitrosomorpholine 614-00-6 N-Nitroso-N-methylaniline 612-64-6 N-Nitroso-N-ethylaniline 91-20-3 Naphthalene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only) 90-30-00-4 Assembly the result of the control of t	924-16-3	N-Nitrosopyrrolidine			GR 25036 2010				
930-55-2 1-Nitrosopyrrolidine 59-89-2 Nitrosomorpholine 614-00-6 N-Nitroso-N-methylaniline 612-64-6 N-Nitroso-N-ethylaniline Polycyclic aromatic hydrocarbons (PAH) 91-20-3 Naphthalene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only)	100-75-4	N-Nitrosomorpholine		China	GB 25038-2010	GB/T 24153		*GB 30585-2014 (only applicable to	
614-00-6 N-Nitroso-N-methylaniline 612-64-6 N-Nitroso-N-ethylaniline Polycyclic aromatic hydrocarbons (PAH) 91-20-3 Naphthalene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only)	930-55-2	1-Nitrosopyrrolidine			GB 30303-2014			rubber parts of infant shoes)	
612-64-6 N-Nitroso-N-ethylaniline Polycyclic aromatic hydrocarbons (PAH) 91-20-3 Naphthalene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only)	59-89-2	Nitrosomorpholine							
Polycyclic aromatic hydrocarbons (PAH) 91-20-3 Naphthalene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only)	614-00-6	N-Nitroso-N-methylaniline							
91-20-3 Naphthalene (Taiwan only) 208-96-8 Acenaphthylene (Taiwan only)	612-64-6	N-Nitroso-N-ethylaniline							
208-96-8 Acenaphthylene (Taiwan only)	Polycyclic aron	matic hydrocarbons (PAH)							
2 20 Assembly California	91-20-3	Naphthalene (Taiwan only)							
83-32-9 Acenaphthene (Taiwan only)	208-96-8	Acenaphthylene (Taiwan only)							
UNS 34/8 (Plastic snoes)	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)			Francisco Halica DEACH Description	AfPS GS 2014:01 PAH		
50-32-8	Benzo(a)pyrene (Taiwan and EU)		European Union	European Union REACH Regulation (EC) No 1907/2006 Annex XVII	AIPS GS 2014.01 PAR		
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)						
5216-25-1	α, α,α,4-tetrachlorotoluene; p- chlorobenzotrichloride	1 mg/kg	EU	Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006			
98-07-7	α, α,α-trichlorotoluene; benzotrichloride	1 mg/kg	EU	1			
100-44-7	g-chlorotoluene: benzyl chloride	1 ma/ka	FU	1			

Organotin Com	npounds							
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)							
57-74-9	Chlordane (Switzerland and EU POPs)			European Union POPs Regulation (EC) No. 850/2004	U.S. EPA Method 8081A/ 8151A -	Japan, South Korea	For Dieldrin, PCP, and TeCP, South Korea restrictions apply at different levels for underwear, baby clothing	
72-54-8	Dichloro-diphenyl-dichloro ethane (DDD)	Not Detected	Switzerland, EU	Annex I Switzerland: ChemRRV	(industry practice - not specified by the			
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			Aillex				
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	
118-74-1	Hexachlorobenzene (Switzerland and EU POPs)			Canada:Prohibition of Certain				
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 Regulation (EC) No. 850/2004				
4234-79-1	Kelevane			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,	(Chemikalien-Risikoreduktions-				
Various	Halogenated terphenols, including Polychlorinated terphenyl (PCT)	Trombited	and the LO	Verordnung) Art. 3 Appendix 1.1 European Union POPs Regulation (EC) No. 850/2004				
Various	Halogenated naphthalenes			Annex I				
Various Various	Halogenated diarylalkanes Halogenated diphenyl 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)		1	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			REACH Regulation (EC) no. 1907/2006 Candidate List for DEHP, BBP, DBP	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	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)	For E.U DEHP+DBP+BBP 0.1% by weight DINP+DIDP+DNOP: 0.1% by weight	Denmark, and the EU	Restricted in the EU	Test method for EU: ISO14389: 2014	for more information review Appendix II), Egypt, Turkey, and Denmark DEHP, BBP, DBP are listed on the EU REACH Candidate List	Washington – Children's Safe Products Act Part 1 (RCW 70.240.020) restricts the six phthalates. The sum of DEHP, BBP, DBP, DINP, DIDP, and DnOP must not exceed 1000 ppm	
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, hygiene,			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,	
68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)			the feeding of children or sucking on the part of children			DNOP: 0.1% by weight 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	
131-11-3	Dimethyl phthalate (DMP)	0.1% (cum) by weight	Taiwan	CNS 15503 (children's	CNS 15138		Gilliaren S toys and Gillia care atticles (10	
84-66-2	Diethyl phthalate (DEP)	0.1% (sum) by weight	Talwall	products)	UNO 10138			
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)	0.1% w/w per article (each) 1 000 mg/kg				
605-50-5	Diisopentylphthalate (DIPP)	(individually or in combination with other				
776297-69-9	N-pentyl-isopentyl phthalate (NPIPP)	phthalates in this entry or in other entries of Annex		E DEAGU	CPSC-CH-	
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	XVII that are classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 in any of the	European Union	European Union REACH Regulation (EC) no. 1907/2006 Candidate List	C1001-09.3 or GB/T 22048- 2008 or ISO14389: 2014	
84-75-3	Di-n-hexyl phthalate (DnHP/DHP)	hazard classes carcinogenicity, germ cell mutagenicity or				
131-18-0	Dipentyl phthalate	reproductive toxicity,				
68515-50-4	1,2- Benzenedicarboxylic acid. Dihexyl ester. Branched and linear	category 1A or 1B				
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
127-19-5	N,N-dimethylacetamide (DMAC)	3 000 mg/kg	EU	Amendment 2018/1513 to Annex XVII to Regulation (EC) No	CEN ISO/TS 16189			
68-12-2	N,N-dimethylformamide; dimethyl formamide (DMF)	3 000 mg/kg	EU	1907/2006	CEN 130/13 10109			
87-68-3 56-23-5 71-55-6	Hexachlorobutadiene Carbon Tetrachloride 1,1,1-Trichloroethane	100 ppm 0.1% (mass)- Each	EU, Switzerland, and Canada Switzerland, EU, and Japan	EU: POP regulation 850/2004 ANNEX I Switzerland: ORRchem annex 1.1 (art.3) Canada Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285) 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, 1,1,2,2- Tetrachloroethane, Chloroform, 1,1,2-Trichloroethane, 1,1- Dichloroethylene, and Trichloroethylene Regulation (EC) No. 1005/2009 Denmark		
76-01-7	Pentachloroethane							
630-20-6	1,1,1,2-Tetrachloroethane			Germany - Chemikalienverbot		European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies		
79-34-5	1,1,2,2-Tetrachloroethane	1		Verordnung (Prohibition of	Hoodeness for	to substances and mixtures) only for Pentachloroethane, 1,1,1,2-		
67-66-3	Chloroform			Chemicals Ordinance), section 16	components (industry	Tetrachloroethane, 1,1,2,2-		
79-00-5	1,1,2-Trichloroethane	0.1% (mass)- Each	EU and Japan	Japan Law for the Control of	practice - not specified by the regulation)	Tetrachloroethane, Chloroform, 1,1,2-Trichloroethane, 1,1- Dichloroethylene, and		
75-35-4	1,1-Dichloroethylene			Household Products Containing Harmful Substances		Trichloroethylene Regulation (EC) No. 1005/2009		
79-01-6	Trichloroethylene					Denmark		
127-18-4	Tetrachloroethylene (Japan only)						_	

76-01-7	Pentachloroethane						
	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 a 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)

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 regulation	ons which have a reporting r	equirement th	at 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 (musk 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 Concern)		Washington (E.U)	
7789-09-5*	Ammonium dichromate]					
120-12-7	Anthracene	1					
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 Concern)		
				DE4.011.01//10		
85-68-7* 117-81-7*	Benzyl butyl phthalate (BBP) Bis (2-ethylhexyl)phthalate (DEHP)	over 0.1%	EU	REACH SVHC (Substances of Very	Washing	ton (U.S.)
56-35-9	Bis(tributyltin)oxide (TBTO)			(Substances of Very		
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)	Washing	gton (US)
84-69-5*	Diisobutyl phthalate					
1303-96-4/ 1330-43-4/ 12179-04-3	Disodium tetraborate, anhydrous					
05007.00.4*/0404.55.0*	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified					
25637-99-4*/3194-55-6* (134237-50-6)* (134237 51-7)* (134237-52-8)*						
	Beta-hexabromocyclododecane					
	Gamma-hexabromocyclododecane					
	-			REACH SVHC		
7758-97-6*	Lead chromate	over 0.1%	EU	(Substances of Very		
12656-85-8*	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)			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		<u> </u>			

115-96-8*	Tris(2-chloroethyl)phosphate	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)	Washington (US)	
Extracted from Index no. 650-017-00-8	Zirconia 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, silicon and zirconium 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 Concern)		
110-80-5*	2-Ethoxyethanol	over 0.1%	EU	REACH SVHC (Substances of Very	Washington (US)	
109-86-4*	2-Methoxyethanol	0.170		High Concern)	· · · · · · · · · · · · · · · · · · ·	
7738-94-5* 13530-68-2*	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.					
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				1	
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 cisand 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 cis- and 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			riigii Goliceiii)		
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	Lead cynamidate					
10099-74-8	Lead dinitrate					
1317-36-8	Lead monoxide (lead oxide)					
1314-41-6	Orange lead (lead tetroxide)					
12060-00-3	Lead titanium trioxide					
12626-81-2	Lead titanium zirconium oxide					
12065-90-6	Pentalead tetraoxide sulphate					
8012-00-8	Pyrochlore, antimony lead yellow					

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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	0.01 0.170		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;						
95-80-7	4-methyl-m-phenylenediamine (2,4-toluene-diamine)						
120-71-8	6-methoxy-m-toluidine (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						

	- In		1	ı	1	ı	1
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						
107-06-2	1,2 Dichloroethane			REACH SVHC			
49663-84-5	Pentazinc chromate octahydroxide	over 0.1%	EU	(Substances of Very			
25214-70-4	Formaldehyde, oligomeric reaction products with aniline (technical MDA)			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]cyc lohexa-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)						

	α,α-Bis[4-(dimethylamino)phenyl]-4				ĺ	1
6786-83-0	(nhenylamino)naphthalene-1- methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]			REACH SVHC		
1303-86-2	Diboron trioxide	over 0.1%	EU	(Substances of Very		
75-12-7	Formamide	Over 0.176		High Concern)		
17570-76-2	Lead(II) bis(methanesulfonate)			r light 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					
131-18-0	Dipentyl phthalate (DPP)					
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 High Concern)		
84-75-3	Dihexyl phthalate			riigh 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)					
-	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)					
7790-79-6	Cadmium fluoride					
10124-36-4, 31119-53- 6	Cadmium sulphate					
3846-71-7	2-benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)					
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)					
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					

					1	
-	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	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					
50-00-0	Formaldehyde	5 ppm				
62-53-3	Aniline	1 ppm	1			
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		Safe Product Act		
79-94-7	Tetrabromobisphenol A	20 ppm	7			
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	7			
86-30-6	N-Nitrosodiphenylamine	1 ppm	7			
87-68-3	Hexachlorobutadiene	30 ppm	7			

94-13-3	Propyl paraben	30 ppm				
94-26-8	Butyl paraben	30 ppm	1			
95-53-4	2-Aminotoluene	1 ppm				
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	Officed States	Safe Product Act		
100-42-5	Styrene	1 ppm	7			
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		Washington Children's Safe Product Act		
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	United States			
118-74-1	Hexachlorobenzene	30 ppm	Office Otales			
119-93-7	3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine	10 ppm				
120-47-8	Ethyl paraben	30 ppm	1			
123-91-1	1,4-Dioxane	1 ppm	7			
127-18-4	Perchloroethylene	0.5 ppm	7			
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	1			
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				
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Appendix II	Labelling: Appendix II lists 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	
	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	Safety Quality Mark Act (KC Mark)		been revised to: 3-14 years old Formaldehyde for children products (3-14 years): 75 mg/kg		
	Azo Dyes	30 ppm				Innerwear and midwear (other than infant and		
56573-85-4	Tributyltin (TBT)	0.5ppm for infant's 1.0 ppm for Children's				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 in		
85-68-7	Benzyl Butyl phthalate (BBP)	0.10%	Korea	Safety Quality Mark Act (KC Mark)		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)					0.1% (sum of DEHP, DBP, BBP, DIDP, DINP, DNOP)		
68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)					Children product (3-14		
32534-81-9	Penta-bromodiphenyl ether (pentaBDE) (0 - 12 years)					years): 0.1% (sum of DEHP,		
32536-52-0	Octa-bromodiphenyl ether (octaBDE) (0 - 12 years)					DBP, BBP)		
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 jewelery		

Lead (Pb) (above 16 years)	600 ppm				
NP/NPEO	100ppm	Korea	Safety Quality		
IN /IN LO	тоорріп	Notea	Mark Act (KC		

Change Log from RSL 19 to RSL 20				
Arylamines	Addition of Quinoline, Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006			
Asbestos				
Dioxins & Furans				
Disperse Dyes	Addition of Basic Violet 3, 2,4-diaminoanisole sulphate, and 4-chloro-o-toluidinium chloride from Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006			
Flame Retardants	Addition of Decabromodiphenyl ether (decaBDE) from Amendment 2017/227 to Annex XVII in (EC) No 1907/2006			
Fluorinated Greenhouse Gases				
Metals	Update extractable Arsenic level 0.2 mg/kg, extractable Chromium level 2 mg/kg, extractable Lead level 0.2 mg/kg, extractable Mercury level 0.02 mg/kg, and extractable Cadmium level 0.1 mg/kg from ES 7322/2018, test method ISO 17072 1			
Misc.	Addition of Benzene, benzotrichloride, p-chlorobenzotrichloride, and benzyl chloride from Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006			
Organotin Compounds				
Pesticides				
Phthalates				
Solvents	Addition of N,N-dimethylacetamide (DMAC) and N,N-dimethylformamide; dimethyl formamide (DMF) from Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006			
Appendix I: Reporting				
Appendix II: Labelling				

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