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Restricted Substances 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.

will be supplemented where 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.

- 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.wewear.org/aafa-on-the-issues/category/?CategoryId=82.

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

Representing more than 1,000 world famous name brands, the American Apparel & Footwear Association (AAFA) is the trusted public policy and political voice of the apparel and footwear industry, its management and shareholders, its four million U.S. workers, and its contribution of \$361 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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CAS Number	Chemical Name/Color Index	Restriction /Maximum	Country	Regulation	Test Method	Other Countries,	Comment	GAFTI
	Name	Limit on Final Product or Tested Component	-			U.S. States that also Regulate this Substance		Comments
60-09-3	4-Amino azobenzene	Reported as not detected. China restriction limit: Textiles 20ppm Leather 30ppm	EU and China	Regulations below apply to all Arylamines listed in this RSL	Textiles (EU): EN 14362-1 :2015 Leather (EU): EN ISO 17234- 1:2015	South Korea (KC Mark, for more information review Appendix II), and Indonesia	4- Amino azobenzene is not listed in GB20400-2006; Only 23 arylamines are subject to this	
97-56-3	o-Aminoazotoluene	EU restriction limit: Textiles and Leather: 30ppm			Test methods specific for 4- Aminoazobenzene confirmation: LFGB 82.02-9 LFGB 82.02-15		standard	
92-67-1	4-Aminodiphenyl			European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	EN ISO 17234-2:2011 •EN 14362 - 3:2012 •GB/T 23344-2009 (pAAB) confirmation	Switzerland, Norway, and Taiwan, Turkey		
99-55-8	2-Amino-4-nitrotoluene			134		Indonesia:		
90-04-0	o-Anisidine	-		XIST	ê .	No.72/M- IND/PER/7/2012 SNI7617:2013		
92-87-5	Benzidine			Je V				
106-47-8	<i>p</i> -Chloroaniline			27 10				
95-69-2	4-Chloro- <i>o</i> -toluidine			The National Standard of the People's Republic of China GB18401-2010	Textiles (China) GB/T 17592-2011	Egypt: ES 7266-4/2011 ES 7322/2011		
120-71-8	p-Cresidine					201022/2011		
615-05-4	2,4-Diaminoanisole	-	vit	MI S		<u>Taiwan:</u> CNS 15290 CNS 15503		
101-77-9	4,4'-Diaminodiphenylmethane					(children		
<u>91-94-1</u> 119-90-4	3,3'-Dichlorobenzidine 3,3'-Dimethoxybenzidine		y.Y.	The National Standard of the People's Republic of China	Leather and fur (China) GB/T 19942-2005	products) CNS 8634		
119-93-7	3,3'-Dimethylbenzidine]	A CC	GB20400-2006-Leather and		(leather casual shoes)		
838-88-0	3,3'-Dimethyl-4,4'-diamino- diphenylmethane			Fur		CNS 10632		
101-14-4	4,4'-Methylene-bis-(2- chloroaniline)		4			(leather shoes)	GB 30585-2014 (Safety technical	
91-59-8	2-Naphthylamine]				Japan:	specification for	
101-80-4	4,4'-Oxydianiline					Textile:	children's	
139-65-1	4,4'-Thiodianiline	4				JIS L 1940	footwear) - will	
95-80-7	2,4-Toluenediamine	4				Leather: ISO	apply on 1 Jan	
<u>95-53-4</u> 137-17-7	o-Toluidine 2,4,5-Trimethylaniline	-				17234-1:2010/- 2:2011	2016	
95-68-1	2,4-Xylidine (China, Japan	-						
87-62-7	only) 2,6-Xylidine (China, Japan only)	1						

Asbestos								
CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
77536-66-4	Actinolite	Not detected	European Union	REACH Regulation (EC)	Microscopic examination; minimum magnification1- 250, attached; ratio of fiber length to diameter is at polarized light filter least 3:1-(industry practice - not specified by the regulation)	Switzerland and Norway, and the U.S		
12172-73-5	Amosite			-	A A A			
77536-67-5	Anthrophyllite			K				
12001-29-5	Chrysotile			174	~			
12001-28-4	Crocidolite				•			
77536-68-6	Tremolite				4			

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)	Sum of Group 1:	Germany	German Chemicalienverbots Verordnung(4)Dioxine	US EPA 8290 (industry practice-not specified by the regulation)			
1746-01-6 40321-76-4 51207-31-9	2,3,7,8-Tetrachlorodibenzo-p-dioxin 1,2,3,7,8-Pentachlorodibenzo-p-dioxin 2,3,7,8-Tetrachlorodibenzofuran	1 μg/kg						
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	_						
39227-28-6 19408-74-3 57653-85-7 57117-41-6 70648-26-9 72918-21-9 57117-44-9 60851-34-5 35822-46-9 3268-87-9 67562-39-4 55673-89-7 39001-02-0	Group 2) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,7,8-pentachlorodibenzofuran 1,2,3,7,8,9-Hexachlorodibenzofuran 1,2,3,6,7,8-Hexachlorodibenzofuran 2,3,4,6,7,8-Hexachlorodibenzofuran 1,2,3,4,6,7,8-Hexachlorodibenzofuran 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin 1,2,3,4,6,7,8-Heptachlorodibenzofuran 1,2,3,4,6,7,8-Heptachlorodibenzofuran 1,2,3,4,6,7,8-Heptachlorodibenzofuran 1,2,3,4,6,7,8,9-Heptachlorodibenzofuran 1,2,3,4,6,7,8,9-Octachlorodibenzofuran 1,2,3,4,6,7,8,9-Octachlorodibenzofuran 1,2,3,4,6,7,8,9-Octachlorodibenzofuran	Sum of Group 1 & 2: 5 µg/kg Sum of Group 1, 2 & 3: 100 µg/kg	NE-ME	F I D I N	AT ON			
50585-41-6 109333-34-8 67733-57-7 131166-92-2	Group 4) 2,3,7,8-Tetrabromodibenzo-p-dioxin 1,2,3,7,8-Pentabromodibenzo-p-dioxin 2,3,7,8-Tetrabromodibenzofuran 2,3,4,7,8-Pentabromodibenzofuran	Sum of Group 4: 1 µg/kg	A .	>				
110999-44-5 110999-46-7 110999-45-6 107555-93-1	Group 5) 1,2,3,4,7,8-Hexabromodibenzo-p-dioxin 1,2,3,7,8,9-Hexabromodibenzo-p-dioxin 1,2,3,6,7,8-Hexabromodibenzo-p-dioxin 1,2,3,7,8-Pentabromodibenzofuran	Sum of Group 4 & 5: 5 µg/kg						

CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
2475-45-8	Disperse Blue 1	Not Detected	Germany	German Food, Feed and Commodities	§64 LFGB B82.02-10 DIN 54231 KS K 0736:2014	South Korea (applicable to babywear, children's wear and adult underwear)	The following disperse dyes are also restricted in Korea KC Mark:	
				17	MIS OF GO		Disperse Blue 3 Disperse Blue 7 Disperse Blue 26, Disperse Blue 102 Disperse Orange 1 Disperse Yellow 1 Disperse Yellow 9 Disperse Yellow 39 Disperse Yellow 49 Disperse Red 11 Disperse Red 17	
2222-75-2	Disperse Blue 35	(below detection limits - see test method)		Law §30 (LFGB §30)	4			
2223-01-7	Disperse Blue 106			~ Kis				
1951-51-7	Disperse Blue 124			3 a				
30-40-5	Disperse Orange 3			N N				
3301-61-6	Disperse Orange 37/59/76							
872-52-8	Disperse Red 1							
2832-40-8	Disperse Yellow 3		W	•				
	Carcinogenic Dyes*	1		1				
3761-53-3	Acid Red 26	Prohibited /	Egypt	ES 7266-4/2011	DIN 54231 /		* Carcinogenic is not used	
69-61-9	Basic Red 9		-975		§64 LFGB 82.02-10		as a description as a sub	
32-99-5	Basic Violet 14		A		30 . L. OD 02.02 10		category of dyes	
602-46-2	Direct Blue 6	->>>>					The term appears in the	
937-37-7	Direct Black 38		\$				Egyptian law restricting	
73-58-0	Direct Red 28						the use of carcinogenic	
2475-45-8	Disperse Blue 1						dyes in clothing & textiles	
32-28-0	Disperse Orange 11							
2832-40-8	Disperse Yellow 3				1			

Flame Retardants	5							
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 Comment
85535-84-8	Chlorinated paraffins (C10-C13)	0.1% by weight	European Union	European Union POPs Regulation (EC) No. 850/2004, Annex I, amended by Regulation (EU) 2015/2030	Solvent extraction and GC-MS or LC- MS (industry practice - not specified by the regulation)	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]	
32534-81-9	Penta-bromodiphenyl ether (pentaBDE)	≤ 0.001% by weight	European Union	European Union POPs Regulation (EO) No. 850/2004, Annex J	Solvent extraction and analysis by GC- MS or LC-MS (industry practice - not specified by the regulation)	United States, Switzerland, and South Korea (KC Mark, for more information review Appendix II)	South Korea requirement applicable only to bedclothes and nightclothes among underwear [applicable to textile products for babies, children and adult, and textile bedding]	
32536-52-0	Octa-bromodiphenyl ether (octaBDE)	≤ 0.1% by weight	ut si	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII				
126-72-7	Tris (2,3-dibromopropyl) phosphate (TRIS)	Prohibited	European Union	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Methanol extraction and analysis by LC- MS or GC-MS (industry practice - not specified by the regulation)	Turkey, Switzerland, Japan, U.S., Egypt, and South Korea (KC Mark, for more information review Appendix II)	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	

Flame Retardants	5							
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 Comment
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	

Fluorinated Greenho	ouse Gases							
CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
2551-62-4	Sulfur hexafluoride - SF ₆	Prohibited	European Union	European Union	Headspace for components			
	Hydrofluorocarbons (HFCs):				(industry practice - not specified by the regulation		Regulation (EU) 517/2014	
75-46-7	HFC-23 - CHF3			Regulation (EU)				
75-10-5	HFC-32 - CH ₂ F ₂	-		No 517/2014	r 0			
593-53-3	HFC-41 - CH ₃ F	-						
138495-42-8	HFC-43-10mee - C ₅ H ₂ F ₁₀	-		2	4			
354-33-6	HFC-125 - C ₂ HF ₅			Nº V				
359-35-3	HFC-134 - C ₂ H ₂ F ₄		27					
811-97-2	HFC-134a - CH ₂ FCF ₃		AA.	4				
75-37-6	HFC-152a - $C_2H_4F_2$	-	ABY	c V				
430-66-0	HFC-143 - C ₂ H ₃ F ₃		WY-'	`				
420-46-2	HFC-143a - C ₂ H ₃ F ₃							
431-89-0	HFC-227ea - C ₃ HF ₇	- W						
677-56-5	HFC-236cb - CH ₂ FCF ₂ CF ₃		•					
431-63-0	HFC-236ea - CHF ₂ CHFCF ₃	Lev V	*					
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	1						
	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
	Restrictions for Textiles	5						
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	Total Content
7439-92-1	Lead (Pb)	90 PPM	Korea	Korea Certification Mark (KC Mark, for more information review Appendix II)	-14	Taiwan	Applies to textile products for children. (0 - 12 years)	CPSC-CH- E1002-08.1 (http://www.gat ti.org/template
7439-92-1	Lead (Pb)	0.2 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 woven infant wear and adomment products (≤ 24months) only FZ/T 73025-2013 (Knitted garment and adomment for infant) Applies to infant knitted wear (≤ 36 months) or body height (≤ 100 cm)	?series=4&art cle=11)
7440-47-3	Chromium	1.0 ppm (leachable)	China	FZ/T 81014-2008 - Infant's wear (woven) FZ/T 73025-2013 (Knitted garment and adomment for infant)	GB/T 17593.1 Textiles- Determination of heavy metals Part 1: Atomic absorption spectrophotometry		Applies to woven infant wear and adomment products (≤ 24months) only FZ/T 73025-2013 (Knitted garment and adomment 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) FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.4 Textiles-Arsenic and Mercury		Applies to woven infant wear and adomment products (≤ 24months) only FZ/T 73025-2013 (Knitted garment and adomment for infant) Applies to infant knitted wear (≤ 36 months) or body height (≤ 100 cm)	
7440-38-2	Arsenic	0.2 ppm (leachable)	China	FZ/T 81014-2008 - Infant's wear (woven) FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.4 TextilesArsenic and Mercury		Applies to woven infant wear and adomment products (≤ 24months) only FZ/T 73025-2013 (Knitted garment and adomment 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.	

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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 Textiles	l				oubstance		
7440-43-9	Cadmium (Cd)	0.1 ppm (leachable)	Indonesia	Regulation, No. 07/M- IND/PER/2/2014	ISO 105-E04 followed by ICP- OES/AAS analysis		Infant apparel (0-36 months)	
7439-92-1	Lead (Pb)	0.2 ppm (leachable)	Indonesia	Regulation, No. 07/M- IND/PER/2/2014	ISO 105-E04 followed by ICP- OES/AAS analysis		Infant apparel (0-36 months)	
7440-50-8	Copper	25 ppm (leachable)	Indonesia	Regulation, No. 07/M- IND/PER/2/2014	ISO 105-E04 followed by ICP- OES/AAS analysis		Infant apparel (0-36 months)	
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)	China	FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.4 Textiles- Determination of heavy metals Part 1: Atomic absorption spectrophotometry	00		
7440-43-9	Cadmium (Cd)	0.1 ppm (leachable)	China	and adornment for infant)	GB/T 17593.4 Textiles- Determination of heavy metals Part 1: Atomic absorption spectrophotometry		Applies to knitted textile products, including clothing, bedding and accessories for infants	
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		Infant is a child \leq 36 months old or \leq 100 cm in height	
7440-48-4	Cobalt	1.0ppm (leachable)	China	FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.4 Textiles- Determination of heavy metals Part 1: Atomic absorption spectrophotometry			
7440-02-0	Nickel (Ni)	1.0 ppm (leachable)	China	FZ/T 73025-2013 (Knitted garment and adornment for infant)	GB/T 17593.4 Textiles- Determination of heavy metals Part 1: Atomic absorption spectrophotometry			
7440-38-2	Arsenic (As)	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			
439-92-1	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)	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			

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 Leather	r			•		1	
7440-43-9	Cadmium (Cd)	Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU, Egypt, and South Korea	For all textile products and textile accessories	
7439-92-1	Lead (Pb)	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)	US.	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	Extractable Content: EN71.3 Total Content: CPSC-CH- E1002-08.1 (http://www.gaf ti.org/template ?series=4&arti cle=11)
18540-29-9	Chromium (Cr 6+) - hexavalent	Not Detected (detection limit is 3 ppm)	Germany	Eighteenth Regulation on the Amendment of the German Ordinance on Commodities of 3rd August 2010	§ 64 LFGB 82.02 - 11(2008) ISO 17075	South Korea, Taiwan, and Egypt	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII requirement: < 3 ppm	
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			
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)	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			
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								
	Restrictions for Metal Pa	arts						1
CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
7439-92-1	Lead (Pb)	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.	
		(0.05 µg/g/li)						
7439-92-1	Lead (Pb)	100 ppm	Denmark	Statutory Order no. 856 of September 5, 2009	KF-K#Ka of	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	Extractable Content: EN71.3 Total Content: CPSC-CH- E1001-08.1 (http://www.ga ti.org/template ?series=4&art cle=11)
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	
		Prohibited	Taiwan	CNS 15290	CNS 4797-2	EU, Egypt, and South Korea	For all textile products and textile accessories	
7440-38-2	Arsenic (As)	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			
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)	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			

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Metals								
	Restrictions for Plastics	and Plastic Film						
CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comment	GAFTI Comments
7439-92-1	Lead (Pb)	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	years and under) After August 14, 2011 the level dropped to 100	Extractable Content: EN71.3 Total Content: CPSC-CH- E1002-08.1
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	
		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	
18540-29-9	Chromium (Cr6+) hexavalent	10ppm	Taiwan	CNS 15503	CNS 15331 Annex A CNS 15331 Annex B		For children products	
7440-38-2	Arsenic (As)	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			
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)	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			

Metals								
	Restrictions for Surface	Coatings and Printing						
CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this	Comment	GAFTI Comments
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	Extractable Content: ASTM F963 Total Content CPSC-CH- E1003-09.1 (http://www.ga ti.org/template ?series=4&ar cle=11)
				HR-HR-K	Total Digestion (industry practice-		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'	
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.	
		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 I	Metals	·		4	•		•	
	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	Antimony: 60 mg/kg Arsenic: 25 mg/kg Barium: 1000 mg/kg Cadmium: 75 mg/kg Chromium: 60 mg/kg	Egypt Taiwan	ES 7322/2011 CNS 15503 (children's product)	EN 71-3 CNS 4797-2			
	<u>Taiwan</u> : Children products up to age 14	Lead: 90 mg/kg Mercury: 60 mg/kg Selenium: 500 mg/kg						

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	- 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, Norway, France, Netherlands, Austria, Lithuania, Germany, New Zealand, South Korea, Vietnam, Taiwan, Egypt, Indonesia and US Minnesota	Vietnam, South Korea define baby products as 0-36 months old Japan and-Taiwan _r -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	
	>36 months old (with direct skin contact)	75 ppm (detection limit is 16 mg/kg) (textiles)	Japan	Japanese Law 112	CNS 15579	6 0	Imit 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	AP FLO	rtile: 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) Leather and fur (without direct skin contact)	75 ppm 300 ppm	China China	GB20400-2006 GB20400-2006	GB/T 19941 GB/T 19941			
50-00-0	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	

Miscellaneous	3							
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 (non-skin contact components on children's athletic shoes)	≤ 300 ppm	China		Textile: GB/T 2912.1-2009			
50-00-0	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			
2795-39-3	Perfluorooctane sulfonate (PFOS)	1 μg/m ² (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/m ² (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		Effective June 1, 2014 PFOA is added to Norwegian Product Regulation with different limits in various materials	
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, and Egypt	Restriction of Blue Colorant in EU applies to substances and mixtures only. (Egypt applies to finished textile products)	

liscellaneous CAS Number	Chemical Name/Color Index Name	Restriction	Country	Regulation	Test Method	Other Countries, U.S.	Comments	GAFTI
		/Maximum Limit on Final Product or Tested Component				States that also Regulate this Substance		Comments
25154-52-3	Nonyl phenol	1000ppm	European	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 children's textile products	For substances and mixtures only. Also for textile and leather processing	
	Nonyl phenolethoxylates	100ppm	Union	European Onion 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	BS EN ISO 18254 Textiles- Methods for the Detection and Determination of alkyl phenol ethoxylates APEOS	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	
	pH value	4.0 - 7.5 (0-36 months) 4.0 - 8.5 (direct skin contact) 4.0 - 9.0 (without direct skin contact)	China	GB 18401-2010	GB/T 7573			
		4.0 - 7.5 (infant, children, innerwear, midwear) 4.0-9.0 (outerwear, bedding) 4.0 - 9.0 (outerwear, bedding)	South Korea	KC Mark	KS K ISO 3071 / ISO 3071			
		not less than 3.5	Egypt	ES 6535/2008	ISO 4045			
5-01-4	Vinyl Chloride Monomer (VCM)	1 mg/kg	Egypt	ES 7322/2011	ISO 6041 / §64 LFGB B80.32- 1:1981-11 / 80/766/EC	Germany- Bedarfsgegenstande Verordning" German Consumer Goods		
		5 mg/kg	China	GB 21550-2008	GB/T 4615-1984	Ordinance	for polyvinyl chloride artificial leather only	

Miscellaneous	S							
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-Nitrosamines	s							
62-75-9	N-Nitrosodimethylamine	Not detected	China	GB 25036-2010	GB/T 24153		only applicable for rubber component	
55-18-5	N-Nitrosodiethylamine	(detection limit: 0.5 mg/kg)		GB 25038-2010 GB 30585-2014			on vulcanized shoes *GB 30585-2014 (only applicable to	
621-64-7	N-Nitrosodipropylamine	0.0 mg/kg/		0000002014			rubber parts of infant shoes)	
924-16-3	N-Nitrosodibutylamine							
100-75-4	N-Nitrosopiperidine							
930-55-2	N-Nitrosopyrrolidine							
59-89-2	N-Nitrosomorpholine							
614-00-6	N-Nitroso-N-methylaniline				422			
612-64-6	N-Nitroso-N-ethylaniline				Vin-s	\$		
					-/. × ×	·		
	natic hydrocarbons (PAH)	Taiwan: Benzo(a)pyrene:	Taiwan and the European	CNS 3478 (Plastic	CNS 3478 Clause			
91-20-3	Naphthalene (Taiwan only)	1 mg/kg	Union	shoes)	018			
208-96-8	Acenaphthylene (Taiwan only)	Total of 16 PAH:		CNS 15503 (children				
83-32-9	Acenaphthene (Taiwan only)	10mg/kg		products) (up to age 14)	4			
86-73-7	Fluorene (Taiwan only)	EU: Articles in		X	>			
85-01-8	Phenanthrene (Taiwan only)	direct skin		A T V				
120-12-7	Anthracene (Taiwan only)	contact with: 1 mg/kg (each)	4					
206-44-0	Fluoranthene (Taiwan only)	Childcare article:	Δ	P. 6				
129-00-0	Pyrene (Taiwan only)	0.5 mg/kg (each)	Wi	Y SALE				
56-55-3	Benzo(a)anthracene (Taiwan and EU)		European	European Union	AfPS GS 2014:01			
218-01-9	Chrysene (Taiwan and EU)		Union	REACH Regulation (EC) No 1907/2006	PAH			
193-39-5	Indeno(1,2,3-cd)pyrene (Taiwan only)			Annex XVII				
205-99-2	Benzo(b)fluoranthene (Taiwan and EU)	- Ic						
207-08-9	Benzo(k)fluoranthene (Taiwan and EU)		-					
50-32-8	Benzo(a)pyrene (Taiwan and EU)	2.	~					
53-70-3	Dibenzo(a,h)anthracene (Taiwan and EU)		4					
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)							

Organotin Comp	ounds							
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	(KC Mark, for more information review	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		South Korean: 1 mg/kg EU: 0.1% by weight of tin		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 X/II	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		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.	

CAS	Chemical Name/Color Index Name	Restriction /Maximum	Country	Regulation	Test Method	Other Countries, U.S.	Comments	GAFTI Comments
Number		Limit on Final Product or Tested Component				States that also Regulate this Substance		
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			European Union POPs Regulation (EC) No. 850/2004	U.S. EPA Method		For Dieldrin, PCP, and TeCP, South	
309-00-2	Aldrin (Switzerland and EU POPs)			AnnexI	8081A/ 8151A - (industry practice -		Korea restrictions apply at different	
57-74-9	Chlordane (Switzerland and EU POPs)	Not Detected	Switzerland, EU		not specified by the	Japan, South Korea	levels for underwear, baby	
72-54-8	Dichloro-diphenyl-dichloro ethane (DDD)			Verordnung) Art. 3 Appendix			clothing (<24	
72-55-9	Dichloro-diphenyl-dichloro ethylene			1.1	S		months) and	
50-29-3	Dichloro-diphenyl-trichloro ethane (DDT)				4		bedclothes	
60-57-1	Dieldrin			K Q C				
72-20-8	Endrine			Verordnung) Art. 3 Appendix 1.1				
76-44-8	Heptachlorine (Switzerland and EU POPs)			* KIS 1 ST				
1024-57-3	Epoxy-heptachlorine			30				
115-29-7 959-98-8 33213-65-9	Endosulfan and its isomers	Prohibited	EU	European Union POPs Regulation (EC) No. 850/2004				
608-93-5	Pentabromobenzene	TIONDREG		Annex				
36355-01-8	Hexabromobiphenyl							
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)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	A 4	Canada:Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)				
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	Switzerland: ChemRRV (Chemikalien-Risikoreduktions- Verordnung) Art. 3 Appendix 1.1				
465-73-6	Isodrin]						
4234-79-1 143-50-0	Kelevane Kepone (Chlordecone) (Switzerland and EU POPs)			European Union POPs Regulation (EC) No. 850/2004 Annex I				

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	Comments	GAFTI Comments
70.40.5						Substance		
72-43-5	Methoxychlor							
2385-85-5 72-56-0	Mirex (Switzerland and EU POPs)							
72-56-0 82-68-8	Perthane							
62-00-0 8001-50-1	Quintozene							
297-78-9	Strobane							
8001-35-2	Telodrin							
1336-36-3	Toxaphene (Switzerland and EU POPs)							
53469-21-9 and Various	Halogenated biphenyls, including Polycholorinated biphenyl (PCB) (both Switzerland)							
Various	Halogenated terphenols, including Polychlorinated terphenyl (PCT)				A			
Various	Halogenated naphthalenes			Canada:Prohibition of Certain	6.			
Various	Halogenated diarylalkanes			Toxic Substances Regulations				
	Halogenated diphenyl methanes			2012 (SOR/2012-285)	^			
99688-47-8	Monomethyl-dibromo-diphenyl methane	Prohibited	Canada, Switzerland, and the EU	Switzerland: ChemRRV (Chemikalien-Risikoreduktions- Verordnung) Art. 3 Appendix				
76253-60-6	Monomethyl-dichloro-diphenyl methane Monomethyl-tetrachloro-diphenyl methane		A A A A	1.7 European Union POPs Regulation (EC) No. 850/2004 Annex I				
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		

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
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/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		European Union REACH regulation (EC) No. 1907/2006 Annex XVII, limit 0.1 mg/kg	ONS 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.	
17-81-7	Di (2-ethylhexyl) phthalate (DEHP)	U.S. and Canada each phthalates 0.1% by weight For E.U DEHP+DBP+BBP 0.1%				Union REACH Regulation No. 1907/2006 Annex	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	
17-84-0	Di-n-octyl phthalate (DNOP)	by weight		Self Regulatory Confirmation		786), South Korea (KC Mark, for more information	years and under) that facilitate sleep	
5-68-7	Benzyl Butyl phthalate (BBP)	DINP+DIDP+DNOP: 0.1% by weight		Notice (Notice No. 2007-34) issued by Korean Agency for Technology and Standards.		review Appendix II), Egypt, Turkey, and Denmark	Unclear which footwear and apparel articles are covered	
84-74-2 8515-48-0 28553- 2-0	Di-n-butyl phthalate (DBP) Di-isononyl phthalate (DINP)	_			Kilo o	5 ⁶ 0	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 Examples: Child bibs, infant	
i8515-49-1 26761- 10-0	Di-isodecyl phthalate (DIDP)		South Korea, U.S., Denmark, and the EU	U.S. Consumer Product Safety Improvement Act (PL 110-787). Schedule 1 of the Canadian Hazardous Products Act (Phthalates regulation SOR/ 2010-298)	CPSC-CH-C1001- 09.3 or GB/T 22048- 2008		DEHP, BBP, and DBP are listed under REACH Annex XIV with sunset dates in February 2015 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 In the U.S. and the EU DINP, DnOP, and DIDP-are restricted in toys and child care articles that can be placed in the mouth	
			4	European Union REACH Regulation (EC) no. 1907/2006 Candidate List for DEHP, BBP, DBP		DEHP, BBP, DBP are listed on the EU REACH Candidate List	China - GB 30585-2014 regulate Infant's footwear (0-36 months, footwear ≤170mm): DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% by weight Children's footwear: (36 months – 14 years, footwear: >170mm, but ≤ 250mm): DEHP, DBP, BBP: 0.1% By weight	
31-11-3	Dimethyl phthalate (DMP)	0.1% (sum) by weight	Taiwan	CNS 15503 (children's	CNS 15138			
	Diethyl phthalate (DEP)	4	Taiwan	products)		1	1	

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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
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)							
776297-69-9	N-pentyl-isopentyl phthalate (NPIPP)			European Union REACH	СРБС-СН-	5 ⁰ 0		
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	0.1% w/w per article (each)	European Union	Regulation (EC) no. 1907/2006 Candidate List	C1001-09.3 or GB/T 22048- 2008			
84-75-3	Di-n-hexyl phthalate (DnHP/DHP)			X	V			
131-18-0	Dipentyl phthalate			ANO				
68515-50-4	1,2- Benzenedicarboxylic acid. Dihexyl ester. Branched and linear		1					
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 $\ge 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)		ANTI- ANTI-					

Solvents								
CAS Number	Chemical Name/Color Index Name	Restriction /Maximum Limit on Final Product or Tested Component	Country	Regulation	Test Method	Other Countries, U.S. States that also Regulate this Substance	Comments	GAFTI Comments
76-01-7	Pentachloroethane	0.1% (mass)- Each	EU and Japan	Germany - Chemikalienverbot	Headspace for components (industry	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies to substances and mixtures) only for Pentachloroethane, 1,1,1,2- Tetrachloroethane, 1,1,2,2- Tetrachloroethane, Chloroform, 1,1,2- Trichloroethane, 1,1- Dichloroethylene, and Trichloroethylene		
56-23-5	Carbon Tetrachloride		A. T	Chemicals Ordinance), section 16	practice - not specified by the regulation)	Regulation (EC) No. 1005/2009		
71-55-6	1,1,1-Trichloroethane	1		· 1		Denmark		
630-20-6	1,1,1,2-Tetrachloroethane	1		S				
79-34-5	1,1,2,2-Tetrachloroethane	1	WI 'N					
67-66-3	Chloroform]						
79-00-5	1,1,2-Trichloroethane		W/ V					
75-35-4	1,1-Dichloroethylene		· · ·					
79-01-6	Trichloroethylene	ster?		Japan Law for the Control of				
127-18-4	Tetrachloroethylene (Japan only)	ं क्षुः	A	Household Products Containing Harmful Substances				

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
	Volatile organics	≤20 g/m²		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	
			A A A					

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 undesi. 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.

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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 (μ 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).

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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



CAS Number	Chemical Name/Color Index Name	Restriction / Maximum Limit Triggering Reporting in Article	Country	Regulation	Test Method [detection limit] if any	Other Countries/States Which Also Regulate	GAFTI Comments
121-14-2*	2.4-Dinitrotoluene	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
121-14-2		-		,			
101-77-9*	4,4'- Diaminodiphenylmethane (MDA) 5-tert-butyl-2,4,6-trinitro-m-xylene						
81-15-2*	(musk xylene)						
79-06-1	Acrylamide						
	Alkanes, C10-13, chloro (Short Chain			Ans			
85535-84-8 NA	Chlorinated Paraffins)			10- 0			
7789-09-5* 120-12-7 90640-80-5 00640 81 6	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 Ammonium dichromate Anthracene Anthracene oil	AN A A	JE LO	Kib or B			
90640-81-6	Anthracene oil, anthracene paste	1					
	Anthracene oil, anthracene paste,						
1995-15-2	anthracene fraction			1			

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CAS Number	Chemical Name/Color Index Name	Restriction / Maximum Limit	Country	Regulation	Test Method [detection	Other Countries/States	GAFTI Comments
		Triggering Reporting in Article			limit] if any	Which Also Regulate	
	Anthracene oil, anthracene	over 0.1%	EU	REACH SVHC (Substances of Very High			
91995-17-4	paste,distn. Lights	4		Concern)			
90640-82-7	Anthracene oil, anthracene-low	_					-
85-68-7*	Benzyl butyl phthalate (BBP)	_				Westington (UO)	
117-81-7*	Bis (2-ethylhexyl)phthalate (DEHP)	_				Washington (US)	
56-35-9	Bis(tributyItin)oxide (TBTO)			AL2			
10043-35-3 / 11113-50-1	Boric acid			Mar de			
7646-79-9	Cobalt dichloride			NG 10			
1303-28-2*	Diarsenic pentaoxide						
1327-53-3*	Diarsenic trioxide			N 0			
84-74-2*	Dibutyl phthalate (DBP)		No.			Washington (US)	
84-69-5*	Diisobutyl phthalate						
1303-96-4/ 1330-43-4/				4			
12179-04-3	Disodium tetraborate, anhydrous	_	× T.	4			
	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified		× v	Kills of the			
25637-99-4*/3194-55-6* (134237-50-6)* (134237-51-	Alpha-hexabromocyclododecane		E & V				
7)* (134237-52-8)*	Beta-hexabromocyclododecane	- the	3				
	Gamma-hexabromocyclododecane		r i i i i i i i i i i i i i i i i i i i				
7758-97-6*	Lead chromate	A V					
	Lead chromate molybdate sulphate						
12656-85-8*	red (C.I. Pigment Red 104)	N N					
7784-40-9	Lead hydrogen arsenate						
	Lead sulfochromate yellow (C.I.	4					
1344-37-2*		4					
65996-93-2	Pitch, coal tar, high temp.	4					
7789-00-6*	Potassium chromate	4					
7778-50-9*	Potassium dichromate	4					
7775-11-3*	Sodium chromate	4					
7789-12-0/ 10588-01-9*	Sodium dichromate	4					
12267-73-1	Tetraboron disodium heptaoxide, hydrate						
79-01-6*	Trichloroethylene	1					
15606-95-8	Triethyl arsenate						
115-96-8*	Tris(2-chloroethyl)phosphate			1		Washington (US)	

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Appendix I	Reporting: Appendix I lists re	egulations which ha	ave a reportin	g requirement that are	not necessa	rily otherwise list	ed 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
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		EU	REACH SVHC (Substances of Very High Concern)			
110-80-5*	2-Ethoxyethanol						
109-86-4*	2-Methoxyethanol					Washington (US)	
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.	A A					
1333-82-0*	Chromium trioxide	1					
513-79-1	Cobalt(II) carbonate	1					
71-48-7	Cobalt(II) diacetate	-					
10141-05-6	Cobalt(II) dinitrate						
10124-43-3	Cobalt(II) sulphate						

Appendix I	Reporting: Appendix I lists re	egulations which ha	ave a reportin	g requirement that are	not necessar	ily otherwise list	ed 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
71888-89-6 96-18-4	1,2-Benzenedicarboxylic acid, di-C6- 8-branched alkyl esters, C7-rich 1,2,3-Trichloropropane	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
872-50-4	1-Methyl-2-pyrrolidone						
302-01-2 / 7803-57-8	Hydrazine						
68515-42-4 7789-06-2 111-15-9	1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters Strontium chromate 2-Ethoxyethyl acetate	-		AND SO			
	Bis(pentabromophenyl)	-	37	Kia o			
1163-19-5	ether (deca-BDE)						
72629-94-8	Pentacosafluorotridecanoic acid		11	A			
2058-94-8	Henicosafluoroundecanoic acid		X				
307-55-1	Tricosafluorododecanoic acid		Jy N	V			
376-06-7	Heptacosafluorotetradecanoic acid		27 10				
NA	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated – covering well defined substances and UVCB substances, polymers and homologues	HET HET HE	is a				
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	A A .		Kills of the			
	Diazana 1.2 diaarhayamida]					
100 77 0	Diazene-1,2-dicarboxamide						
123-77-3	(C,C'-azodi(formamide)						

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
	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]	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
10122 14 1, 01 110 20 0	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]	HE WE HE	× Kin				
625-45-6	Methoxy acetic acid	· · ·					
	1,2-Benzenedicarboxylic acid,	VIX A					
34777-06-0	dipentylester, branched and linear						
605-50-5	Diisopentylphthalate (DIPP)	[· 4,					
776297-69-9	N-pentyl-isopentylphthalate	Å					
629-14-1	1,2-Diethoxyethane N,N-dimethylformamide;						
68-12-2	dimethyl formamide						
583-18-1	Dibutyltin dichloride (DBTC)						
51404-69-4	Acetic acid, lead salt, basic						
1240.46.6	Trilead bis(carbonate)						
1319-46-6 12036-76-9	dihydroxide Lead oxide sulfate						
69011-06-9	[Phthalato(2-]dioxotrilead	4					

Reporting: Appendix I lists re	egulations which ha	ve a reporting	g requirement that are	not necessar	ily otherwise liste	ed in the RSL.
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
	over 0.1%	EU	REACH SVHC			
			(Substances of Very High			
			Concern)			
Lead bis(tetrafluoroborate)						
Lead cynamidate						
Lead dinitrate						
Lead monoxide (lead oxide)						
Orange lead (lead tetroxide)						
Lead titanium trioxide						
Lead titanium zirconium oxide			41-7 90			
Pentalead tetraoxide sulphate			The second			
Pyrochlore, antimony						
lead yellow		1%				
Silicic acid (H2Si2O5), barium salt		-12	•			
(1:1), lead-doped [with lead (Pb)		16-	A			
content above the applicable generic		Xer				
concentration limit for 'toxicity for		Ila I	V			
reproduction' Repr. 1A (CLP) or		N N				
category 1 (DSD); the substance is a						
member of the group entry of lead		T c V				
compounds with index number 082-		N				
001-00-6 in Regulation (EC) No	w/	· 🔨				
1272/2008]	Wh (
Silicic acid lead salt	, "//"					
Sulfurous acid lead salt dibasic						
Tetraethyllead						
Tetralead trioxide sulphate						
Trilead dioxide phosphonate	Kz 24					
Furan						
	Chemical Name/Color Index Name Dioxobis(stearato)trilead Fatty acids, C16-18, lead salts Lead bis(tetrafluoroborate) Lead cynamidate	Chemical Name/Color Index NameRestriction / Maximum Limit Triggering Reporting in ArticleDioxobis(stearato)trileadover 0.1%Fatty acids, C16-18, lead saltsLead bis(tetrafluoroborate)Lead cynamidateLead dinitrateLead dinitrateLead dinitrateLead titanium zirconium oxidePentalead tetroxide)Pentalead tetraoxide sulphatePyrochlore, antimony lead yellowSilicic 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]Silicic acid, lead salt Sulfurous acid, lead salt 	Chemical Name/Color Index Name Restriction / Maximum Limit Triggering Reporting in Article Country Dioxobis (stearato)trilead over 0.1% EU Fatty acids, C16-18, lead salts ead cynamidate Edd cynamidate Lead dinitrate Lead dinitrate ead titanium trioxide Lead dinitrate Lead dinitrate edd tetroxide) Drange lead (lead tetroxide) Pentalead tetraoxide sulphate Pyrochlore, antimony lead yellow 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] with index number 082- 001-00-6 in Regulation (EC) No 1272/2008] Silicic acid, lead salt Sulfurous acid, lead salt Sulfurous acid, lead salt tit with with with with with with with w	Chemical Name/Color Index Name Restriction / Maximum Limit Triggering Reporting in Article Country Regulation Dioxobis(stearato)trilead over 0.1% EU REACH SVHC (Substances of Very High Concern) Lead bis(tetrafluoroborate) Lead vanamidate concern) EU REACH SVHC (Substances of Very High Concern) Lead dinitrate Lead vanamidate concern) Eu Read (add tertoxide) Orange lead (lead torxide) Orange lead (lead torxide) Eu Read (lead torxide) Concern) Lead dinitrate Lead titanium zirconium oxide Pentalead tetraoxide sulphate Pyrochfore, antimony lead yellow Fatty acids, C16-18, lead salt Fatty acids, lead salt, dibasic Fatty acids, C16-10, lead salt Fatty acids, lead salt, dibasic Fatty acids, C16-10, lead salt Fa	Chemical Name/Color Index Name Restriction / Maximum Limit Triggering Reporting in Article Country Regulation Test Method [detection limit] if any Dioxobis(stearato)trilead over 0.1% EU REACH SVHC (Substances of Very High Concern) Lead bis(tefatilumohorate) Lead dinitrate Lead dinitrate Lead dinitrate Lead minitrate Lead transide (lead oxide) Concern) Filts of the state of the s	Name Maximum Limit Triggering Reporting in Article Image: Constraint of the system in Article Countries/States Dioxobis(stearato)trilead over 0.1% EU REACH SVHC (Substances of Very High Concern) Regulate Lead tobis(tetrafluoroborate) Lead chirtarte Lead chirtarte Countries/States Lead tobis(tetrafluoroborate) Lead chirtarte Countries/States Name Lead tobis(tetrafluoroborate) Lead tobis(tetrafluoroborate) Countries/States Name Lead tobis(tetrafluoroborate) Lead tobis(tetrafluoroborate) Countries/States Name Lead tobis(tetrafluoroborate) Lead tobis(tetrafluoroborate) Countries/States Name Lead titranium zirconium zirconiu

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
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3 oxazolidine Dinoseb (6-sec-butyl-2,4-	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
88-85-7	dinitrophenol)						
838-88-0	4,4'-methylenedi-o-toluidine						
101-80-4	4,4'-oxydianiline and its salts						
60-09-3	4-Aminoazobenzene;						
	4-methyl-m-phenylenediamine			N. T.			
95-80-7	(2,4-toluene-diamine)						
	6-methoxy-m-toluidine						
120-71-8	(p-cresidine)						
92-67-1	Biphenyl-4-ylamine		12				
97-56-3	o-aminoazotoluene		-K	· ·			
95-53-4	o-Toluidine;		11	A			
79-16-3	N-methylacetamide		X				
	1-bromopropane;		JE N	1			
106-94-5	n-propyl bromide		22 0				
7778-44-1	Calcium Arsenate						
111-96-6	Bis(2-methoxyethyl) ether						
	Potassium hydroxyoctaoxodizincate		× -				
11103-86-9	dichromate	W/	· 🔨				
6477-64-1	Lead dipicrate	1 MA					
127-19-5	N,N Dimethylacetamide (DMAC)	· · · · · ·					
7778-39-4	Arsenic acid						
90-04-0	2-methoxyaniline; o-anisidine			Kills of the			
3687-31-8	Trilead diarsenate						
107-06-2	1,2 Dichloroethane	the sh					
49663-84-5	Pentazinc chromate octahydroxide	-					
		~					
	Formaldehyde, oligomeric reaction						
25214-70-4	products with aniline (technical MDA)						
117-82-8	Bis(2mthoxyethyl) phthalate]					
140-66-9	4-(1,1,3,3, tetramethylbutyl)phenol	1					
13424-46-9	Lead azide, Lead diazide]					
77-09-8	Phenolphthalein	1					
24613-89-6	Dichromium tris(chromate)						

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
15245-44-0	Lead Styphnate	over 0.1%	EU	REACH SVHC			
101-14-4	2,2-dichloro-4,4,methylenedianiline			(Substances of Very High			
112-49-2	1,2-bis(2methoxy-ethoxy) ethane (TEGDME; triglyme)			Concern)			
110-71-4	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)						
	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-						
561-41-1	959-2)]	-					
50-32-8	Benzo[def]chrysene (Benzo[a]pyrene)						
	4,4'-bis(dimethylamino)			10- 0-			
90-94-8 2580-56-5	benzophenone (Michler's ketone)	4					
	[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)]		XAS	Kin o'			
	N,N,N',N'-tetramethyl-		2 la	V			
101-61-1	4,4'methylenedianiline (Michler's base)		N V				
6786-83-0	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)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)]	4747-1	is t	Kib or b			
1303-86-2	Diboron trioxide	he .					
75-12-7	Formamide						
17570-76-2	Lead(II) bis(methanesulfonate)						
2451-62-9	TGIC (1,3,5,tris(oxiranyl methyl)-1,3 triazine-2,4,6 (1H,3H,5H)trione) b-TGIC (1.3.5-tris[(2S and 2R)-2,3-	22 4					
59653-74-6	epoxypropyl]-1,3,5-triazine- 2,4,6(1H3H,5H)trione)	4					
	[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-						
548-62-9	959-2)]	4					
7440-43-9	Cadmium	4					
3825-26-1	Ammonium pentadecafluorooctanoate (APFO) Pentadecafluorooctanoic acid						
335-67-1	(PFOA)						
131-18-0	Dipentyl phthalate (DPP)	1					

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Appendix I	Reporting: Appendix I lists re	egulations which ha	ave a reportin	g requirement that are	not necessar	ily otherwise liste	ed 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
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]	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
1306-19-0	Cadmium oxide	-	12				
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)		茶で	N. A			
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)	1548-1	is 1				
84-75-3	Dihexyl phthalate						
96-45-7	Imidazolidine-2-thione (2-imidazoline- 2-thiol)	LET A					
301-04-2	Lead di(acetate)						
25155-23-1	Trixylyl phosphate						
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	4					
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)						

Appendix I	Reporting: Appendix I lists re	egulations which ha	ave a reportin	g requirement that are	not necessa	ily otherwise liste	ed 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
-	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)	over 0.1%	EU	REACH SVHC (Substances of Very High Concern)			
7790-79-6	Cadmium fluoride						
10124-36-4, 31119-53-6	Cadmium sulphate			Mar o			
3846-71-7	2-benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)			Jun 4			
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)		-K				
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 $\ge 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)		××××××××××××××××××××××××××××××××××××××	2			
-	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]	WAT IN A	j.	Kilo o t b			
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						

Appendix I	Reporting: Appendix I lists r	egulations which ha	ave a reportin	g requirement that are	not necessa	rily otherwise liste	ed 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
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	1				
75-09-2	Methylene chloride	1 ppm	1				
75-15-0	Carbon disulfide	10 ppm					
78-93-3	methyl ethyl ketone	1 ppm		King of the			
79-34-5	1,1,2,2,-Tetracholoroethane	1 ppm		10- 0-			
79-94-7	Tetrabromobisphenol A	20 ppm					
80-05-7	Bisphenol A	20 ppm		The Y			
84-66-2	Diethyl phthalate	5 ppm		Nº O			
84-75-3	Di-n-Hexyl phthalate	5 ppm					
85-44-9	Phthalic anhydride	100 ppm		4			
86-30-6	N-Nitrosodiphenylamine	1 ppm		Washington Children's Safe			
87-68-3	Hexachlorobutadiene	30 ppm	United States	Product Act			
94-13-3	Propyl paraben	30 ppm	22 0	•			
94-26-8	Butyl paraben	30 ppm 🛛 🔥					
95-53-4	2-Aminotoluene	1 ppm 🛛 😯				Candidate List	
95-80-7	2,4-Diaminotoluene	10 ppm	X				
99-76-3	Methyl paraben	30 ppm] 🔨 🍈				
99-96-7	p-Hydroxybenzoic acid	10 ppm					
100-41-4	Ethylbenzene	1 ppm ///	V				
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 4				Candidate List	
106-47-8	para-Chloroaniline	60 ppm					
107-13-1	Acrylonitrile	1 ppm					
107-21-1	Ethylene glycol	5 ppm	1				
108-88-3	Toluene	1 ppm					

Appendix I	Reporting: Appendix I lists re	egulations which ha	ve a reportin	g requirement that are	not necessa	rily otherwise liste	ed 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
108-95-2	Phenol	60 ppm					
117-84-0	Di-n-octyl phthalate (DnOP)	5 ppm					
118-74-1	Hexachlorobenzene	30 ppm					
119-93-7	3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'- Dimethylbenzidine	10 ppm					
120-47-8	Ethyl paraben	30 ppm					
123-91-1	1,4-Dioxane	1 ppm					
127-18-4	Perchloroethylene	0.5 ppm					
	Benzophenone-2 (Bp-2): 2,2',4,4'-			Kib or so			
131-55-5	Tetrahydroxybenzophenone	20 ppm					
	4-tert-Octylphenol; 1,1,2,2,-					Candidate List	
140-66-9	Tetramethyl-4-butylphenol	10 ppm		-1. X X			4
140-67-0	Estragole	10 ppm					
149-57-5	2-Ethylhexanoic acid	1 ppm					
556-67-2	Octamethycyclotetrasiloxane	10 ppm	- K				
608-93-5	Benzene, pentachloro	1 ppm		4			
842-07-9	C.I. solvent yellow 14	1 ppm		1.			
872-50-4	N-Methylpyrrolidone	50 ppm	Sh	· V			-
	2,2',3,3',4,4',5,5',6,6'		X V				
	Decambromodiphenyl ether; BDE-			Washington Children's Safe		Candidate List	
1163-19-5	209	10 ppm	United States	Product Act			-
	Perfluorooctanyl sulphonic acid and		× .	T TOddet Act			
1763-23-1	its salts; PFOS	1 ppm					
1806-26-4	Phenol, 4-octyl-	10 ppm 🛛 🖊 🏏					
5466-77-3	2-Ethyl-hexyl-4-methoxycinnamate	5 ppm					
	Mercury & mercury compounds						
	including methyl mercury (22967-92-						
7439-97-6	6)	0.5 ppm					
	Molybdenum & molybdenum						
7439-98-7	compounds	1 ppm 🔨					
7440-36-0	Antimony & Antimony compounds	1 ppm					
	Arsenic & Arsenic compounds including arsenic trioxide (1327-53-3)						
7440-38-2	& dimethyl arsenic (75-60-5)	1 ppm					-
7440-43-9	Cadmium & cadmium compounds	1 ppm				Candidate List	-
7440-48-4	cobalt & cobalt compounds	1 ppm					
25013-16-5	Butylated hydroxyanisole, BHA	10 ppm					-
25637-99-4	Hexabromocyclododecane	10 ppm				Candidate List	-
26761-40-0	Diisodecyl phthalate (DIDP)	50 ppm					
28553-12-0	Diisononyl phthalate (DINP)	50 ppm					
13674-87-8	tris(1,3-dichloro-2-propyl)phosphate	50ppm					

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CAS Number	Chemical Name/Color Index	Restriction /	Country	Regulation	Test Method [detection	Comment	GAFTI Comments
	Name	Maximum Limit			limit] if any		
		Triggering Labeling in Component					
	Formaldehyde (0 - 36 months)	20 ppm					
50-00-0	Formaldehyde (3 - 12 years)	75 ppm (innerwear), 300 ppm (outerwear)		Safety Quality Mark Act (KC Mark)	4 00	Age range off children's product in KC mark has been revised to: 3-14 years old Formaldehyde for children product (3- 14 years): 75 mg/kg Innerwear and midwear (other than infant and children proruct): 75 mg/kg; outerwear (other than infant and children	
	Azo Dyes	30 ppm		-King o		proruct): 300 mg/kg	
56573-85-4	TributyItin (TBT)	0.5ppm		1/2-1× A		TBT for KC Mark infant product (0-36	
1002-53-5	Dibutyltin (DBT) (0 - 36 months)	1 ppm		Sototy Quality Mark Act			
624-49-7	Dimethyl Fumarate	0.1 ppm	Korea 🏼 🏑	Salety Quality Mark Act			
117-84-0	Di-n-octyl phthalate (DNOP)	P P	72	(RC Mark)		Phthalates	
117-81-7	Di (2-ethylhexyl) phthalate (DEHP)					requirement in KC	
85-68-7	Benzyl Butyl phthalate (BBP)			1		Mark:	
84-74-2	Di-n-butyl phthalate (DBP)		A Pr S			Mark.	
68515-48-0				×		Baby products (0-36	
28553-12-0	Di-isononyl phthalate (DINP)	0.10%	Korea			months):_ 0.1% (sum of DEHP,	
68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)	A.	A.			DBP, BBP, DIDP, DINP, DNOP)	
	Penta-bromodiphenyl ether						
32534-81-9	(pentaBDE) (0 - 12 years)	Banned (only applicable					
	Octa-bromodiphenyl ether	to flame retardant					
32536-52-0	(octaBDE) (0 - 12 years)	products)					
68112-30-1	TDBPP (0 - 12 years)						
	Disperse Dyes	Not Detected				Disperse dyes only applies to baby product, children children and innerwear	
7439-92-1	Lead (Pb) (0 - 12 years)	40 ppm- 100ppm (lead				Toys with paints,	
1439-92-1		in substrate) 40 ppm- 90ppm (lead in coating)	Illinois, U.S.A	Lead Posioning Prevention Act		child care articles, children's jewellery	
	Lead (Pb) (above 16 years)	600 ppm					

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Change Log from RSL 17 to R Arylamines	SL 18 No changes
Asbestos	No changes
Dioxins & Furans	No changes
Disperse Dyes	No changes
Fluorinated Greenhouse Gases	No changes
Metals	No changes
Misc.	No changes
Organotin Compounds	No changes
Pesticides	No changes
Phthalates	No changes
Solvents	No changes
Appendix I: Reporting	Addition of Benzo[def]chrysene (Benzo[a]pyrene) CAS #50-32-8
Appendix II: Labelling	No changes

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