

OTB

Restricted Substances List (RSL) & Product Safety Requirements

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INTRODUCTION TO OTB RSL

OTB GROUP sees the present as a unique opportunity to create a brighter future, aiming to contribute significantly to the creation of a renewed supply chain, that has its roots on pillars such as the durability of products, their traceability, and focusing on circular economy. OTB GROUP strives for the planet against climate change, protecting biodiversity and developing control systems to manage the emissions in the atmosphere, the water used in the production processes, and chemicals. The goal is to reduce the possible impacts, protecting people and ecosystems.

OTB, an international fashion GROUP that owns several brands including **Diesel**, and the Operational companies **Staff International** and **Brave Kid**, requires transparency to all its business partners and recognizes this document as an operative instrument to put into practice, within the production sites and the entire supply chain, the principles stated in the Code of Conducts.

With the Restricted Substances List (RSL), OTB GROUP identified a list of substances to be restricted and/or prohibited in its products and the production processes, to protect clients, employees, and the environment.

OTB requires to its suppliers the adoption of a “clean approach” (Clean Factory Approach) extended at 360° on all plants and productions, including those of subcontractors.

These limits come from the application of mandatory requirements related to the health and safety of goods as well as the environment. In case any possible risk for the safety of workers, final customers and the environment, OTB GROUP decided to introduce more stringent restrictions, even based on standards globally recognized (es. Oeko-tex), according to the principle of precaution, although no specific regulations have been yet established

OTB PRSL refers to those articles pertaining to the fashion industry (apparel, footwear, accessories, leather goods, small leather goods, jewelry, glasses, packaging). Products with specific requirements like cosmetics, child-care products, toys, electrical and electronical goods or having food contact, have not been included.

PRODUCTIVE PROCESSES

CONFORMITY OF INCOMING CHEMICAL PRODUCTS

OTB GROUP, being member of ZDHC, requires to its suppliers a safer use of chemical products in input, and to respect the MRSL (**Manufacturing Restricted Substances List**) of **ZDHC**. The aim of this document is to help managing the substances used in processes and it contributes to avoid their utilization during production, by forbidding the usage/setting limits in their formulations. All suppliers of OTB GROUP, both finished products and raw material manufacturers, shall duly respect those requirements ensuring full conformity to MRSL ZDHSC version 2.0 (and following revisions) published at the address <https://www.roadmaptozero.com/input>

OTB GROUP’s suppliers are warmly invited to subscribe (free of charge) to **ZDHC Gateway – Chemical Module** platform; this is the first global existing database of “safer” chemical substances for the entire value chain. Suppliers could refer to the list of chemical formulations compliant to ZDHC MRSL, identifying the level of conformity, and, if necessary, by looking at safer products (alternative to those they already are using), rather than suggest to chemical formulators to register their own products within the ZDHC Gateway – Chemical Module for making them compliant.

From 01/01/2023, suppliers all will be required to proof the conformity to ZDHC MRS� of their chemical inventory, ensuring that all formulations are in compliance with at least the **LEVEL 1** <https://www.zdhc-gateway.com>

They could also benefit from **ZDHC InCheck**, an easy and well readable report of the chemical inventory that represents a universally accepted system to measure the conformity of all the chemical products used by the company towards the ZDHC MRS�; it's a clear summary of the performances that provides also recommendations of how to improve them.

MANAGEMENT OF CHEMICAL PRODUCTS

To reduce the environmental impacts, OTB Group requires also the application of a correct chemical management system.

The ZDHC CMS (Chemical Management System) is divided in two sections: the first consists of a framework that defines the minimum components of a CMS; the second is a guideline about the implementation of a CMS. Suppliers are invited to consult <https://www.roadmaptozero.com/process> where they can download (free of charge) the excel form called CIL (Chemical Inventory List), created for helping in write down an inventory of the chemicals used in all business areas. A properly made and updated CIL, facilitates the traceability and the decisions on the chemical management, promoting their responsible use too.

WASTEWATERS

Apparel, fabrics, leather goods, and footwear productions, usually require large quantities of water, that at the end of the process is discharged into the environment. If not correctly treated, this water could contain substances harmful to our planet.

All OTB GROUP's suppliers involved in the wet processes, shall test their wastewater at least once a year, following the **ZDHC Wastewater Guidelines** protocol. The version in force can be downloaded by the web page <https://www.roadmaptozero.com/output>.

Thanks to these guidelines, it has been possible to standardize the requirements of tests to be performed on wastewaters and sludges within the supply chain. Brands, suppliers, universities, laboratories, and technological companies have worked together on laying down this revolutionary initiative for the industry.

The test reports shall be published on **ZDHC Gateway - Wastewater Module**, an online platform where is possible to upload and share with OTB GROUP the data on wastewater tests. Subsequently to the upload of the test result, by the same platform it will be possible to download (free of charge) a graphic representation concerning the performances of suppliers' wastewater, that is called **ClearStream**. For more info <https://www.zdhc-gateway.com/>

IMPLEMENTATIONS

OTB GROUP believes that a responsible management of chemical substances among the supply chain, is essential for making a sustainable future, but the company has well understood that the verification of the suppliers is not enough. The industry needs instruments to implement and to motive the change.

OTB GROUP invites all its suppliers to seriously take into consideration the **Supplier to Zero** platform. This platform is a reference point and a source for training the supply chain, that aims to quickly implement the management of chemical substances by following the "best practices" of the industry.

Structured into three levels, it provides in the "basic" level, the directions for a management system of chemical products. Suppliers learn how to implement the ZDHC guidelines, they acquire familiarity with the platforms and the proposed solutions identifying the areas of improvement in the management of sustainable chemistry by reducing the risks and costs associated to obsolete practices. Supplier to Zero, is linked to ZDHC Gateway, the database of the approved chemical substances.

Those suppliers that decide to undertake the next level, the "advanced" one, or the even better "aspirational" one, will have the chance to demonstrate their performances by qualifying their companies and by positioning them on the market as true industry leaders.

<https://www.implementation-hub.org/>

PRODUCTS

The PRSL (i.e. Product Restricted Substances List) of the OTB GROUP is periodically updated and provides a list of chemical substances whose presence is prohibited or limited in order to ensure full compliance of raw materials, semi-finished and finished products.

These limits, are the result of a careful analysis, resulting by the application of mandatory regulations concerning the health of people, the safety of products and the environmental protection as well as from the voluntary decision to reduce the use of all those substances that have shown any possible risk.

According to the precautionary principle, when binding regulations are not yet established by those countries in which production is made or the selling of finished products is expected, OTB GROUP decided to introduce more restrictive limitations anyway, inspired by the most accredited sources for chemical safety (i.e. Oeko-tex) rather than other global industry standards.

At the time of finished products delivery, all supplies shall comply by law with REACH regulation (no. 1907/2006 REACH) and all the related amendments in force; products shall also not contain substances on the SVHC (Substances of Very High Concern) list and mentioned on the "Candidate List". OTB asks its suppliers to keep up-to-date by periodically visiting the ECHA website <http://echa.europa.eu/it> for REACH regulation requirements, and the site <http://echa.europa.eu/it/candidate-list-table> for the list of SVHC substances.

The Supplier shall immediately notify to OTB Group the presence of SVHC substances above 0.1% by weight (1000 mg/kg). Since OTB Group doesn't accept the presence of such substances above this value, the supplier is obliged to find substitutes that are in compliance with the Regulation.

The OTB GROUP continuously verifies compliance with the PRSL, carrying out chemical tests only by using ISO 17025 accredited laboratories, with accredited METHODS according to the indications provided in the PRSL for the individual families of substances. In this way, the OTB Group wants to exclude any possible risk, ensuring full compliance with the settled parameters aiming to introduce in the market only safe products.

In doubts or for any question regarding this document, you can write to the reference person of Sustainability Office.

MAJOR CHEMICAL UPDATES COMPARED TO:

PRSL and Physical Ready To Wear V3.0; Declaration of compliance addressed to Staff International S.P.A, Footwear and bags division Ver. 1.0; PRSL and Physical-Mechanical requirements (Apparel) addressed to Diesel S.p.A. ver. 9.0; Declaration of compliance in relation to product restricted substances list (RSL) and Physical-Mechanical requirements (Apparel) addressed to Brave Kid S.r.l. ver. 9.0

SUBSTANCE	UPDATES	RAW MATERIALS/ PRODUCTS INVOLVED
BORIC ACID	New substance	Textiles, leather and fur, wood/coroza/bamboo and similar
ALKYLPHENOLS e ALKYLPHENOLS Ethoxylates	Limits updates, METHODS and substances Tab.	Textiles, leather and fur, plastics/rubber, paper/packaging and similar
ASBESTOS	New family of substances	Textiles, leather and fur, plastic /rubber, wood/coroza/bamboo and similar
Benzenes and Chlorinated Toluene	Limits updates and Substances Tab.	Textiles, leather, and fur
BIOCIDES	New family of substances	Textiles, leather, and fur
Bisphenol A	Limits updates and test METHODS	Plastic/rubber
QUINOLINE	Update test METHODS	Textiles, leather, and fur
Vinyl Chloride Monomer	New Substance	Textiles, plastic/rubber
COLORANTS Dispersed Allergenic, disocciabili in Arilamine/Azo, CARCINOGENIC, Others	Limits updates, METHODS and substances Tab.	Textiles, leather, and fur
MERCURY COMPOUNDS	New family of substances	Textiles, leather and fur, wood/coroza/bamboo and similar
Fluorinated compounds: PFOS and related substances/ PFOA and its salts and related substances	Substances Tab.update	Textiles, leather, and fur
ORGANOTIN COMPOUNDS	Limits updates, METHODS and substances Tab.	Textiles, leather and fur, plastic /rubber, wood/coroza/bamboo and similar Adhesives and glues
Preservatives	Limits updates, METHODS	Wood/coroza, bamboo and similar
Chromium VI(Cr VI)	Update test METHODS	Leather and Fur, metallic parts
DIMETHYL FUMARATE	Update test METHODS	Textiles, leather and fur, wood/coroza/bamboo and similar
Dioxins and Furans	New substance	Leather and fur, plastic/rubber
Formaldehyde	Limits updates and METHODS	Textiles, leather, and fur, wood/coroza, bamboo and similar, paper/packaging, and similar, adhesives and glues
PHTHALATES	Limits updates, METHODS, and substances Tab.	Textiles, leather and fur, plastic/rubber, paper and packaging, adhesives, and glues
POLYCYCLIC AROMATIC HYDROCARBONS(IPA_PAH)	Limits updates, METHODS, and substances Tab.	Textiles, leather and fur, plastic /rubber, wood/coroza/bamboo and similar Adhesives and glues
ISOCYANATES	Limits updates, METHODS, and substances Tab.	Textiles, plastic/rubber, adhesives, and glues

SUBSTANCE	UPDATES	RAW MATERIALS/ PRODUCTS INVOLVED
TOTAL HEAVY METALS	Limits updates and METHODS	Textiles, leather and fur, plastic/rubber, metallic parts, glass and crystals, wood/coroza/bamboo and similar, paper and packaging
EXTRACTABLE HEAVY METALS	Limits updates and METHODS	Textiles, leather and fur, plastic/rubber, metallic parts, glass and crystals, wood/coroza/bamboo and similar,
SOLUBLE HEAVY METALS	New family of substances	Textiles, plastic/rubber, metallic parts, glass and crystals, wood/coroza/bamboo and similar
NITROSAMINES	Substances Tab.	Plastic/rubber
ORTHOPHENYLPHENOL (OPP)	Limits updates, METHODS and substances Tab.	Textiles, leather, and fur
SHORT CHAIN CHLORINATED PARAFFINSe media	Limits updates and METHODS	Textiles, leather and fur, plastic/rubber, adhesives, and glues
Polychlorobiphenyls (PCB) Polychloronaphthalenes (PCN)	New family of substances	Textiles, leather and fur, plastic/rubber, metallic parts, wood/coroza/bamboo and similar, adhesives, and glues
Pentachlorofenoli (PCP), TETRACHLOROPHENOLS (TeCP), TRICHLOROPHENOLS (TeCP), DICHLOROPHENOLS (DCP), MONOCHLOROPHENOLS(MCP)	Limits updates, METHODS, and substances Tab.	Textiles, leather and fur, plastic /rubber, wood/coroza/bamboo and similar
Pesticides	Limits updates and Substances Tab.	Textiles
PVC	New Substnace	Packaging and similar
Weekly Nickel Release	Limits updates	Metallic parts
FLAMES RETARDANTS	Limits updates and Substances Tab.	Textiles, leather and fur, plastic /rubber, wood/coroza/bamboo and similar
SOLVENTS	Limits updates, METHODS, and substances Tab.	Textiles, leather and fur, plastic /rubber, wood/coroza/bamboo and similar

OTB GROUP PRSL

TEXTILES

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
BORIC ACID	mg/kg	n.d.*		5	Microwave digestion and analysis by ICP-MS
ALKYLPHENOLS (AP) (Tab. 1)	mg/kg	n.d.*	100 (sum)	10	ISO 21084
ALKYLPHENOLS ETHOXYLATES (APEO) (Tab. 2)	mg/kg	100 (sum)		10	EN ISO 18254-1
ASBESTOS (Tab. 3)	mg/kg	n.d.*		N/A	Microscopic examination SEM
BIOCIDES (Tab. 4)	mg/kg	0,5	1	0,5	Solvent extraction and analysis by GC-MS LC-MS
CHLOROBENZENES AND CHLOROTOLUENES (Tab. 5)	mg/kg	1 (Tab. 5)	1 (Tab. 5) 5 (sum) (only for recycled materials)	0,2 (each)	EN 17137
		Pentachlorobenzene and Esachlorobenzene: n.d.*			
QUINOLINE	mg/kg	50		5	MeOH extraction + GC-MS or THF / DCM + HPLC-MS
VYNIL CHLORIDE MONOMER (VCM) (only for synthetic materials like fake leather)	mg/kg	1		0,5	GB/T 4615
COLORANTS	mg/kg	CARCINOGENIC (Tab. 6A)		10	DIN 54231
		DISPERSE ALLERGENIC (Tab. 6B)		1	DIN 54231 KS K 0763 ⁽¹⁾
		CLEAVABLE ARYLAMINES / ARYLAMINES (AZO) (Tab. 6C)		5	EN ISO 14362-1 e 3 GB/T 17592.1 GB/T 33392 GB/T 23344 KS K ISO 0147 ⁽¹⁾ KS K 0739 ⁽¹⁾ KSK 0734 ⁽¹⁾
		OTHERS (Tab. 6D)		10	DIN 54231
MERCURY COMPOUNDS (Tab. 12)	mg/kg	1		1	ISO 17072-2 (screening) EN 16711-1
FLUORINATED COMPOUNDS - PERFLUOROCTANESULFONATES (PFOS) AND RELATED SUBSTANCES (Tab. 7A)	µg/m ²	1	1	1	CEN/TS 15968
FLUORINATED COMPOUNDS - PERFLUOROCTANOIC ACID (PFOA) AND SALTS (Tab. 7B)	µg/kg	25		1	CEN/TS 15968

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
FLUORINATED COMPOUNDS - PERFLUOROOCANOIC ACID (PFOA) AND RELATED SUBSTANCES (Tab.7B)	µg/kg	1000 FTOH: 10		1 FTOH: 10	CEN/TS 15968 FTOH: Solvent extraction and analysis by GC-MS
ORGANOTIN COMPOUNDS (Tab. 8)	mg/kg	TBT/TPHT/TBTO: n.d.* Others: 1		0,1 Others: 0,2	CEN ISO/TS 16179 KS K 0737 ⁽¹⁾ ISO 22744-1
DIMETHYL FUMARATE (DMFu)	mg/kg	0,1		0,05	EN 17130 CEN ISO/TS 16186 GB/T 26713
FORMALDEHYDE (FREE AND EXTRACTABLE)	mg/kg	16 KID 0-4 Years 75 KID 5-16 Years	75	16	EN ISO 14184-1 GB 18401 : GB/T 2912.1 Japan Law : JIS L1041 KS K 14184-1 ⁽¹⁾
PHthalATES (Tab. 9) (only for coated / printed / painted / laminated fabrics)	mg/kg	DEHP,DBP,BBP,DINP, DIBP: 50 (each) DNOP: 100 Others: 500 (sum)		50 (each)	EN ISO 14389 CPSC-CH-C1001-09.4 GB/T 20388 For footwear also ISO/TS 16181
POLYCYCLIC AROMATIC HYDROCARBON S(PAH) (Tab. 10)	mg/kg	0,5	1	0,5	AfPS GS 2019:01 EN 17132
ISOCYANATES (Tab. 11)	mg/kg	n.d.*		2	RIF. EN 13130-8
ORTHOPHENYLPHENOL (OPP)	mg/kg	0,5	1	0,5	§ 64 LFGB BVL B 82.02-08 EN 17134
SHORT CHAIN CHLORINATED PARAFFINS SCCP C10-C13	mg/kg	50		50	Extraction + analysis by GC/MS Rif. EN ISO 18219-1
MEDIUM CHAIN CHLORINATED PARAFFINS MCCP C14-C17	mg/kg	100		15	Extraction + analysis by GC/MS Rif. EN ISO 18219-2
PENTACHLOROPHENOL (PCP) TETRACHLOROPHENOLS (TeCP) TRICHLOROPHENOLS (TriCP) DICHLOROPHENOLS (DCP) MONOCHLOROPHENOLS(MCP) (Tab. 13)	mg/kg	PCP: n.d.* TeCP: n.d.* TriCP: n.d.* DCP: 0,5 (sum) MCP: 0,5 (sum) Triclosan: n.d.*	PCP: n.d.* TeCP: n.d.* TriCP: n.d.* DCP: 3 mg/kg (sum) MCP: 3 mg/kg (sum) Triclosan: n.d.*	0,05 (each)	§ 64 LFGB BVL B 82.02-08 UNI 11057 PCP/TeCP anche GB/T 18414.1-2 (children's rubber shoes: upper, lining, socks) Triclosan: EN 17134 KS K ISO 0733 ⁽¹⁾ (PCP only)
pH	-	4.0 – 7.5		-	EN ISO 3071 GB 18401: GB/T 7573 KS K ISO 3071 ⁽¹⁾
POLYCHLOROBIPHENYLS (PCB) POLYCHLORONAPHTHALENES (PCN) (Tab. 14)	mg/kg	PCB: 0,1		0,1	EPA 3540C + EPA 8082A
		PCN: 1		1	EPA 3550C + EPA 8270E
FLAMES RETARDANTS (Tab. 15)	mg/kg	n.d.*		5	EN ISO 17881-1/-2 GB/T 24279 Solvent extraction and analysis by GC- MS or LC -MS

PARAMETER		UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS	
SOLVENTS (Tab. 16)	CHLORINATED SOLVENTS	mg/kg	α-chlorotoluene : 1 GROUP A: 500 (sum) GROUP B 50 (sum)		0,05	Solvent extraction and analysis by GC-MS / HS-GC-MS	
	VOC		Benzene: 5 Methyl Alcohol: 1000 N-exane: 150 Toluylen diisocyanate: 100 Toluene:200				
	OTHERS SOLVENTS		DMF: 50 NMP: 100 DMAc: 300 2-methoxyethanol: 10 Others 500	DMF: 200 NMP: 500 DMAc: 500 2-methoxyethanol: 10 Others 500		Solvent extraction and analysis by GC-MS / HS-GC-MS	
TOTAL HEAVY METALS							
Arsenic (As)		mg/kg	25		1	EN 16711-1 Baby & Children footwear QB/T 4340	
Cadmium (Cd)			40 Textile and coated textile		1	EN 16711-1 GB/T 30157 PVC: GB 21550 Baby & Children footwear QB/T 4340	
Lead (Pb)			40 (jewelry and costume jewelry) 90 Textile and coated textile	90 Textile and coated textile		1	EN 16711-1 CPSC-CH-E1002-08.3 GB/T 30157 CPSC-CH-E1003-09.1 (dyes and coatings) PVC GB 21550 Baby & Children footwear QB/T 4340
Mercury (Hg)			1		0,05	EN 16711-1	
EXTRACTABLE HEAVY METALS							
Chromium VI(CrVI)		mg/kg	0,5		0,5	GB/T 17593.3 ISO 17075-2	
Antimony (Sb)			30		5	EN 16711-2 Rubber shoes and children's shoes: (upper, lining and socks): Arsenic, requirements in GB/T 17593.4 ; Cadmium and Lead requirements also in GB/T 17593.1	
Arsenic (As)			0,2	1			0,02
Barium (Ba)			1000		1		
Cadmium (Cd)			0,1		0,02		
Cobalt (Co)			1	4			0,1
Chromium VI (Cr VI)			n.d.*		0,5		
Chromium (Cr)			1	2			0,5
Manganese (Mn)			150	200			0,1
Mercury (Hg)			0,02		0,01		
Nickel (Ni)			1	4			1
Lead (Pb)			0,2	1			0,1
Copper (Cu)			25	50			5
Selenium			100		1		

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
SOLUBLE HEAVY METALS	mg/kg			1	EN16711-2 (Supplier is also required to comply with the following requirements: KS G ISO 8124-3 ⁽¹⁾ EN 71-3 ISO 8124-3 GB/T 28020 CNS 4797-2 Cd: also SNI 7617:2013)
Antimony (Sb)		60	-		
Arsenic (As)		25	-		
Barium (Ba)		1000			
Cadmium (Cd)		75	-		
Chromium (Cr)		60	-		
Mercury (Hg)		60	-		
Lead (Pb)		90			
Selenium		500	-		

LEATHER AND FUR

Some OTB brands are fur free

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
BORIC ACID	mg/kg	n.d.*		5	Internal method: Microwave digestion and analysis by ICP-MS
ALKYLPHENOLS (AP) (Tab. 1)	mg/kg	n.d.*	100 (sum)	10	EN ISO 18218-2
ALKYLPHENOLS ETHOXYLATES (APEOS) (Tab. 2)	mg/kg	100 (sum)		10	EN ISO 18218-1
ASBESTOS (Tab. 3)	mg/kg	n.d.*		N/A	Microscopic examination SEM
BIOCIDES (Tab. 4A)	mg/kg	n.d.*	n.d.* 5 (sum) (for recycled materials only)	0,5	Solvent extraction and analysis by GC-MS / LC-MS
BIOCIDES (Tab. 4B) Additional requirements for watch straps and similar		PCMC: 150 OIT: 50 OPP: 250 TCMTB: 250 (500 sum)	PCMC: 300 OIT: 100 OPP: 500 TCMTB: 500 (1200 sum)		EN ISO 13365 or Solvent extraction and analysis by GC-MS LC-MS
QUINOLINE	mg/kg	50		0,1	MeOH extraction + GC-MS or THF / DCM + HPLC-MS
CHLOROBENZENES AND CHLOROTOLUENES (Tab. 5)	mg/kg	1 (Tab. 5)	1 (Tab. 5) 15 (sum) (for recycled materials only)	0,2	EN 17137
		Pentachlorobenzene and Esachlorobenzene: n.d.*			
COLORANTS	mg/kg	CARCINOGENIC (Tab. 6A)	n.d.*	10	DIN 54231
		DISPERSE ALLERGENIC (Tab. 6B)	n.d.*	1	DIN 54231 KS K 0736 ⁽¹⁾

PARAMETER		UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
COLORANTS	CLEAVABLE ARYLAMINES / ARYLAMINES (AZO) (Tab. 6C)	mg/kg	30		5	EN ISO 17234-1,2 GB 20400: GB/T 19942 GB/T 33392 Synthetic or artificial leather GB 20400: GB/T 19942 GB/T 17592 GB/T 33392 KS K 0147 ⁽¹⁾
	OTHERS (Tab. 6D)		n.d*		10	DIN 54231
MERCURY COMPOUNDS (Tab. 12)		mg/kg	1		1	ISO 17072-2 (screening)
FLUORINATED COMPOUNDS - PERFLUOROOCTANESULFONATES (PFOS) AND RELATED SUBSTANCES (Tab. 7A)		µg/m ²	1 (coated materials)		1	EN ISO 23702-1 CEN/TS 15968
		mg/kg	25		25	EN ISO 23702-1
FLUORINATED COMPOUNDS - PERFLUOROOCTANOIC ACID (PFOA) AND SALTS (Tab. 7B)		µg/kg	25		25	EN ISO 23702-1
FLUORINATED COMPOUNDS - PERFLUOROOCTANOIC ACID (PFOA) AND RELATED SUBSTANCES (Tab. 7B)		µg/kg	1000 FTOH: 10		1 FTOH: 10	EN ISO 23702-1 FTOH: Solvent extraction and analysis by GC-MS BV
ORGANOTIN COMPOUNDS (Tab. 8)		mg/kg	TBT/ TPhT/TBTO: n.d* Others: 1		TBT: 0,1 Others: 0,2	CEN ISO/TS 16179
CHROMIUM VI (CR VI)		mg/kg	3		0,5	EN ISO 17075-2 Analysis after ageing: 1) GARMENT & LEATHERGOODS ISO 10195 A1 60° C. Max 20% humidity + EN ISO 17075 2) SHOES ISO 10195 A2 80° C. Max 10% humidity+ EN ISO 17075 For rubber / children's shoes: upper, lining and socks also according to requirement GB/T 38402 KS M 6902 ⁽¹⁾
DIMETHYL FUMARATE (DMFu)		mg/kg	0,1		0,05	CEN ISO/TS 16186 For rubber / children's shoes (leather, fur, synthetic or artificial leather-like material) also according to GB/T 26713
DIOXINS AND FURANS (Tab. 17)	GROUP A	µg/kg	1		1	Organic solvent extraction and analysis by GC-MS
	GROUP B		5			
	GROUP C		100			
FORMALDEHYDE (FREE AND EXTRACTABLE)		mg/kg	16 KID 0-4 Years 75 KID 5-16 Years	75	5	EN ISO 17226-1 GB/T 19941 KS K ISO 17226-2 ⁽¹⁾

PARAMETER		UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
PHTHALATES (Tab. 9) (for coated / patent / printed / laminated leathers)		mg/kg	DEHP,DBP,BBP,DINP,DIBP:50 (each) DNOP: 100 Others: 500 (sum)		50 (each)	CEN ISO/TS 16181 CPSC-CH-C1001-09.4
POLYCYCLIC AROMATIC HYDROCARBONS (PAH) (Tab. 10)		mg/kg	0,5	1	0,2	AfPS GS 2019:01 UNI CEN ISO/TS 16190
ORTHOPHENYLPHENOL (OPP)		mg/kg	250	750	5	ISO 13365-1
SHORT CHAIN CHLORINATED PARAFFINSS CCP C10-C13		mg/kg	50		10	Extraction + analysis by GC/MS EN ISO 18219-1
MEDIUM CHAIN CHLORINATED PARAFFINSMCCP C14-C17		mg/kg	100		100	Extraction + analysis by GC/MS Rif. EN ISO 18219-2
PENTACHLOROPHENOL (PCP) TETRACHLOROPHENOLS (TeCP) TRICHLOROPHENOLS (TriCP) DICHLOROPHENOLS (DCP) MONOCHLOROPHENOLS(MCP) (Tab. 13)		mg/kg	PCP: n.d.* TeCP:n.d.* TriCP: n.d.* DCP: 0,5 mg/kg (sum) MCP: 0,5 mg/kg (sum) Triclosan: n.d.*	PCP: n.d.* TeCP: n.d.* TriCP: n.d.* DCP: 3 mg/kg sum) MCP: 3 mg/kg sum) Triclosan: n.d.*	0,05 (each)	EN ISO 17070 Rubber shoes and children's shoes (synthetic or artificial leather-like material) PCP/TeCP also GB/T 18414.1-2 KS K ISO 0733 ⁽¹⁾ (PCP only)
pH		-	3,5 – 7.5 $\Delta pH \leq 0,7$		-	EN ISO 4045
			synthetic or artificial material similar to leather 4,0-9,0 (rubber shoes and children's shoes: upper, lining and socks)			GB/T 7573
POLYCHLOROBIPHENYLS (PCB) POLYCHLORONAPHTHALENES (PCN) (Tab. 14)		mg/kg	PCB: 0,1		0,1	EPA 3540C + EPA 8082A
			PCN: 1		1	EPA 3550C + EPA 8270E
FLAMES RETARDANTS (Tab. 15)		mg/kg	n.d.*		5	Rif. EN ISO 17881-1/-2 Rif. GB/T 24279 solvent extraction and analysis by GC/MS or LC -MS
RESIDUAL SOLVENTS (Tab. 16)	CHLORINATED SOLVENTS	mg/kg	α -chlorotoluene : 1 GROUP A: 500 (sum) GROUP B 50 (sum)		0,05	solvent extraction and analysis by GC-MS / HS-GCMS
	VOC		Benzene: 5 Methyl Alcohol: 1000 N-hexane: 150 Toluyl diisocyanate: 100 Toluene:200			
	OTHERS SOLVENTS		DMF: 50 NMP: 100 DMAc: 300 2-methoxyethanol: 10 Others 500	DMF: 200 NMP: 500 DMAc: 500 2-methoxyethanol: 10 Others 500		
TOTAL HEAVY METALS						
Arsenic (As)		mg/kg	100	251	1	EN ISO 17072-2 Baby & Children footwear QB/T 4340

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
Cadmium (Cd)	mg/kg	40		1	EN ISO 17072-2 Baby & Children footwear QB/T 4340
Lead (Pb)	mg/kg	40 (jewelry and costume jewelry) 90 (leather and patent leather)	90 (leather and patent leather)	1	EN ISO 17072-2 CPSC-CH-E1002-08.3 Baby & Children footwear QB/T 4340
Tin (Sn)	mg/kg	1 (watch straps and similar)		1	EN ISO 17072-2
EXTRACTABLE HEAVY METALS					
Antimony (Sb)	mg/kg	30		0,5	EN 17072-1 Rubber shoes and baby shoes (upper, lining and socks), leather, fur and synthetic and artificial materials similar to leather: GB/T 26713 Arsenic, requirement also in GB/T 17593.4; Cadmium and Lead requirement also in GB/T 17593.1
Arsenic (As)		0,2		0,02	
Barium (Ba)		1000		0,5	
Cadmium (Cd)		0,1		0,02	
Cobalt (Co)		1	4	0,1	
Mercury (Hg)		0,02		0,005	
Nickel (Ni)		1	4	0,1	
Lead (Pb)		0,2	0,8	0,1	
Copper (Cu)		25	50	5,0	
Selenium (Se)		100		0,1	
SOLUBLE HEAVY METALS					
Antimony (Sb)	mg/kg	60	-	1	EN 71-3 (Supplier is also required to comply with the following requirements: KS G ISO 8124-3 ⁽¹⁾ ISO 8124-3 GB/T 28020 CNS 4797-2 Cadmium also SNI 7617:2013 Lead/PVC leather also GB/T 30157)
Arsenic (As)		25	-		
Barium (Ba)		1000			
Cadmium (Cd)		75	-		
Chromium (Cr)		60	-		
Mercury (Hg)		60	-		
Lead (Pb)		90			
Selenium		500	-		

PLASTIC / RUBBER

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
ALKYLPHENOLS (AP) (Tab. 1)	mg/kg	n.d.*	100 (sum)	10	Rif. ISO 21084
ALKYLPHENOLS ETHOXYLATES (APEO) (Tab. 1)	mg/kg	100 (sum)		10	EN ISO 18254-1
ASBESTOS (Tab. 3)	mg/kg	n.d.*		N/A	Microscopic examination SEM
BISFENOLO A	mg/kg	n.d.*		0,1	EN 71-10/11 (migration) or LCMS-MS
ORGANOTIN COMPOUNDS (Tab. 8)	mg/kg	TBT/ TPhT/TBTO: n.d.* Others: 1		TBT: 0,1 Others: 0,2	CEN ISO/TS 16179

PARAMETER		UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
DIOXINS AND FURANS (Tab. 17)	GROUP A	mg/kg	1		1	Organic solvent extraction and analysis by GC-MS
	GROUP B		5			
	GROUP C		100			
PHTHALATES (Tab. 9)		mg/kg	DEHP,DBP,BBP,DINP,DIBP:50 (each) DNOP: 100 Others: 500 (sum)		50 (each)	CEN ISO/TS 16181 CPSC-CH-C1001-09.4 ISO 8124-6
POLYCYCLIC AROMATIC HYDROCARBONS (PAH) (Tab. 10)		mg/kg	0,5	1	0,2	AfPS GS 2019
ISOCYANATES (Tab. 11)		mg/kg	n.d.*		1	RIF. EN 13130-8
NITROSAMINES (Tab. 18)		mg/kg	0,5		0,5	GB/T 24153
SHORT CHAIN CHLORINATED PARAFFINS SCCP C10-C13		mg/kg	50		50	Extraction + analysis by GC/MS EN ISO 18219-1
MEDIUM CHAIN CHLORINATED PARAFFINS MCCP C14-C17		mg/kg	100		100	Extraction + analysis by GC/MS Rif. EN ISO 18219-2
PCTP PENTACHLOROTHIOPHENOL		mg/kg	1.0000			
POLYCHLOROBIPHENYLS (PCB) POLYCHLORONAPHTHALENES (PCN) (Tab. 14)		mg/kg	PCB: 0,1		0,1	EPA 3540C + EPA 8082A
			PCN: 1		1	EPA 3550C + EPA 8270E
FLAMES RETARDANTS (Tab. 15)		mg/kg	n.d.*		5	solvent extraction and analysis by GC/MS o LC /MS
SOLVENTS (Tab. 16)	CHLORINATED SOLVENTS	mg/kg	α-chlorotoluene : 1 GROUP A: 500 sum) GROUP B 50 sum)		0,05	solvent extraction and analysis by GC-MS / HS-GCMS
	VOC		Benzene: 5 Methyl Alcohol: 1000 N-exane: 150 Toluylen diisocyanate: 100 Toluene:200			
	OTHERS SOLVENTS		DMF: 50 NMP: 100 DMAc: 300 2-methoxyethanol: 10 Others 500	DMF: 200 NMP: 500 DMAc: 500 2-methoxyethanol: 10 Others 500		
VCM - VYNIL CHLORIDE MONOMER		mg/kg	1		0,5	GB/T 4615
TOTAL HEAVY METALS						
Arsenic (As)		mg/kg	25	-	1	Microwave acid digestion and analysis by ICP-OES/MS Baby & Children footwear QB/T 4340
Cadmium (Cd)		mg/kg	40		1	EN 1122 PVC: GB 21550 Baby & Children footwear QB/T 4340

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
Lead (Pb)	mg/kg	40 (jewelry and costume jewelry) 90	90 (painted materials) 100	1	CPSC-CH-E1002-08.3 CPSC-CH-E1003-09.1 (painted materials) Baby & Children footwear QB/T 4340
Mercury (Hg)	mg/kg	1		0,05	Microwave acid digestion and analysis by ICP-MS/OES
EXTRACTABLE HEAVY METALS					
Alluminium (Al)	mg/kg	28.130	-	1	EN 71-3 extraction with hydrochloric acid 0,07M
Antimony (Sb)		560	-	0,5	
Arsenic (As)		47	-	0,02	
Barium (Ba)		18.750	-	0,5	
Borium		15.000	-	1	
Cadmium (Cd)		17	-	0,02	
Chromium III		460	-	1	
Chromium VI		0,053	-	0,0025	
Cobalt (Co)		130	-	0,1	
Mercury (Hg)		94	-	0,005	
Manganese (Mn)		15.000	-	1	
Nickel (Ni)		930	-	0,1	
Lead (Pb)		23	-	0,1	
Copper (Cu)		7.700	-	5,0	
Selenium (Se)		460	-	0,1	
Tin (Sn)		180.000	-	1	
Strontium (Sr)		56.000	-	1	
Zinc	46.000	-	1		
SOLUBLE HEAVY METALS					
Antimony (Sb)	mg/kg	60	-	1	EN 71-3 (Supplier is also required to comply with the following requirements: KS G ISO 8124-3 ⁽¹⁾ ISO 8124-3 GB/T 28020 CNS 4797-2)
Arsenic (As)		25	-		
Barium (Ba)		1000	-		
Cadmium (Cd)		75	-		
Chromium (Cr)		60	-		
Mercury (Hg)		60	-		
Lead (Pb)		90	-		
Selenium		500	-		

METAL PARTS

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
TOTAL ARSENIC	mg/kg	25	1000	1	Microwave acid + ICP-MS/OES GB/T 21198-6 e GB/T 28021 Baby & Children footwear QB/T 4340

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
TOTAL CADMIUM	mg/kg	40		1	Digestione microonde ICP-MS/OES GB/T 28021 CPSC-CH-E1004-11 Baby & Children footwear QB/T 4340
CHROMIUM VI	mg/kg	1000		1	GB/T 28019
NICKEL (weekly release for accessories in direct and prolonged contact with the skin)	µg/cm ² week	Earrings / piercings: 0,11 Others: 0,28		0,01	Coated/plated EN 12472 + EN 1811 Not plated/Not coated: EN 1811 Sun/optical glasses frames: EN 16128
TOATL LEAD	mg/kg	Jewellery: 40 Paint/coating 90 Substrate 90	Paint/coating 90 Substrate 100	1	Coated: CPSC-CH-E1003-09.1 Substrate CPSC-CH-E1001-08.3 GB/T 28021 Baby & Children footwear QB/T 4340
TOTAL MERCURY	mg/kg	1		0,05	Digestione acida + det. ICP-MS/OES GB/T 21198-6 e GB/T 28021
POLYCHLOROBIPHENYLS (PCB) POLYCHLORONAPHTHALENES (PCN) coated materials (Tab. 14)	mg/kg	PCB: 0,1		0,1	EPA 3540C + EPA 8082A
		PCN: 1		1	EPA 3550C + EPA 8270E
EXTRACTABLE HEAVY METALS					
Alluminium (Al)	mg/kg	28.130	-	1	EN 71- extraction with hydrochloric acid 0,07M Jewellery also (adults, only for coating ≥ 10 mg): ASTM F963-11 KS G ISO 8124-3 ⁽¹⁾ ISO 8124-3
Antimony (Sb)		560	-	0,5	
Arsenic (As)		47	-	0,02	
Barium (Ba)		18.750	-	0,5	
Borium		15.000	-	1	
Cadmium (Cd)		17	75 (Jewellery)	0,02	
ORGANOTIN COMPOUNDS		12 (Jewellery)	-	1	
Chromium III		460	-	1	
Chromium VI		0,053	-	0,0025	
Chromium totale		60 (Jewellery)	-	1	
Cobalt (Co)		130	-	0,1	
Mercury (Hg)		94	-	0,005	
Manganese (Mn)		15.000	-	1	
Nickel (Ni)		930	-	0,1	
Lead (Pb)		23	-	0,1	
Copper (Cu)		7.700	-	5	
Selenium (Se)		460	-	0,1	
Tin (Sn)		180.000	-	1	
Strontium (Sr)		56.000	-	1	
Zinc		46.000	-	1	
SOLUBLE HEAVY METALS Coated or painted metals					

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
Antimony (Sb)	mg/kg	60	-	1	EN 71-3 (Supplier is also required to comply with the following requirements KS G ISO 8124-3 ⁽¹⁾ EN 71-3 ISO 8124-3 GB/T 28020 CNS 4797-2)
Arsenic (As)		25	-		
Barium (Ba)		1000	-		
Cadmium (Cd)		75	-		
Chromium (Cr)		60	-		
Mercury (Hg)		60	-		
Lead (Pb)		90	-		
Selenium		500	-		

GLASS AND CRYSTALS

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
TOTAL ARSENIC	mg/kg	25	-	1	Microwave acid digestion and analysis by ICP-OES/MS Baby & Children footwear QB/T 4340
TOTAL LEAD	mg/kg	Jewellery: 40 Paint/coating 90 Substrate 90	Paint/coating 90 Substrate 100	1	CPSC-CH-E1002-08.3 Coated: CPSC-CHE-1003-09.1
TOTAL MERCURY	mg/kg	1		0,05	Microwave acid digestion and analysis by ICP-MS/OES
TOTAL CADMIUM	mg/kg	40	1000 75 if coated	1	Rif. EN 1122
EXTRACTABLE HEAVY METALS					
Alluminium (Al)	mg/kg	28.130	-	1	EN 71-3 extraction with hydrochloric acid 0,07M
Antimony (Sb)		560	-	0,5	
Arsenic (As)		47	-	0,02	
Barium (Ba)		18.750	-	0,5	
Borium		15.000	-	1	
Cadmium (Cd)		17	-	0,02	
Chromium III		460	-	1	
Chromium VI		0,053	-	0,0025	
Cobalt (Co)		130	-	0,1	
Mercury (Hg)		94	-	0,005	
Manganese (Mn)		15.000	-	1	
Nickel (Ni)		930	-	0,1	
Lead (Pb)		23	-	0,1	
Copper (Cu)		7.700	-	5,0	
Selenium (Se)		460	-	0,1	
Tin (Sn)		180.000	-	1	
Strontium (Sr)		56.000	-	1	
Zinc		46.000	-	1	

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
SOLUBLE HEAVY METALS					
Antimony (Sb)	mg/kg	60	-	1	KS G ISO 8124-3 ISO 8124-3 CNS 4797-2
Arsenic (As)		25	-		
Barium (Ba)		1000	-		
Cadmium (Cd)		75	-		
Chromium (Cr)		60	-		
Mercury (Hg)		60	-		
Lead (Pb)		90	-		
Selenium		500	-		

WOOD / COROZO / BAMBOO AND SIMILAR MATERIALS

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
BORIC ACID	mg/kg	n.d.*		5	Acid digestion + ICP-MS And water extraction + GC/MS
ASBESTOS (Tab. 3)	mg/kg	n.d.*		N/A	Microscopic examination SEM
MERCURY COMPOUNDS (Tab. 12)	mg/kg	1		1	Microwave digestion - ICP-MS/OES
ORGANOTIN COMPOUNDS (Tab. 8)	mg/kg	TBT/ TPhT/TBTO: n.d.* Others: 1		TBT: 0,1 Others: 0,2	CEN ISO/TS 16179
PRESERVATIVES	mg/kg	Lindane: 1. Cyfluthrin, Cypermethrin/Deltamethrin: Permethrin: 5 mg/kg		Lindane: 1. Others: 5	EN 71-9 GC-MS; GC-ECD+ EN 71-11, acetic acid and ethanol extraction
DIMETHYL FUMARATE	mg/kg	0,1		0,05	CEN ISO/TS 16186
FORMALDEHYDE (FREE AND EXTRACTABLE)	mg/kg	16 KID 0-4 Years 75 KID 5-16 Years	75	16	EN 717-3
POLYCYCLIC AROMATIC HYDROCARBONS (PAH) (Tab. 10)	mg/kg	0,5	1	0,2	AfPS GS 2019:01 UNI CEN ISO/TS 16190
POLYCHLOROBIPHENYLS (PCB) POLYCHLORONAPHTHALENES (PCN) For coated materials (Tab. 14)	mg/kg	PCB: 0,1		0,1	EPA 3540C + EPA 8082A
		PCN: 1		1	EPA 3550C + EPA 8270E
PENTACHLOROPHENOL (PCP) TETRACHLOROPHENOLS (TeCP) TRICHLOROPHENOLS (TriCP) DICHLOROPHENOLS (DCP) MONOCHLOROPHENOLS(MCP) (Tab. 13)	mg/kg	PCP: n.d.* TeCP: n.d.* TriCP: n.d.*DCP: 0,5 (sum) MCP: 0,5 (sum) Triclosan: n.d.*	PCP: n.d.* TeCP: n.d.* TriCP: n.d.* DCP: 3 mg/kg (sum) MCP: 3 mg/kg (sum) Triclosan: n.d.*	0,05 (each)	CEN/TR 14823

PARAMETER		UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
TOTAL HEAVY METALS						
Arsenic (As)		mg/kg	1,0		1,0	Acid digestion + analysis by ICP-OES/MS Baby & Children footwear QB/T 4340 (for As, Cd, Pb)
Cadmium (Cd)			40		1,0	
Mercury (Hg)			1,0		0,05	
Lead (Pb)			40 (jewellery only) 90 substrate and coating	90 substrate and coating	1,0	
FLAMES RETARDANTS (Tab. 16)		mg/kg	n.d.*		5	Solvent extraction and analysis by GC-MS; LC-MS; GC-ECD
SOLVENTS (Tab. 16)	CHLORINATED SOLVENTS	mg/kg	α-chlorotoluene : 1 GROUP A: 500 (sum) GROUP B 50 (sum)		0,05	Solvent extraction and analysis by GC-MS HS-GCMS
	VOC		Benzene: 5 Methyl Alcohol: 1000 N-exane: 150 Toluylen diisocyanate: 100 Toluene:200			
	OTHERS SOLVENTS		DMF: 50 NMP: 100 DMAc: 300 2-methoxyethanol: 10 Others 500 (each)	DMF: 200 NMP: 500 DMAc: 500 2-methoxyethanol: 10 Others 500 (each)		
EXTRACTABLE HEAVY METALS						
Alluminio (Al)		mg/kg	28.130	-		EN 71-3 extraction with hydrochloric acid 0,07M
Antimony (Sb)			560	-	0,5	
Arsenic (As)			47	-	0,02	
Barium (Ba)			18.750	-	0,5	
Boro			15.000	-	1	
Cadmium (Cd)			17	-	0,02	
Chromium III			460	-	1	
Chromium VI			0,053	-	0,0025	
Cobalt (Co)			130	-	0,1	
Mercury (Hg)			94	-	0,005	
Manganese (Mn)			15.000	-	1	
Nickel (Ni)			930	-	0,1	
Lead (Pb)			23	-	0,1	
Copper (Cu)			7.700	-	5,0	
Selenium (Se)			460	-	0,1	
Tin (Sn)			180.000	-	1	
Stronzio (Sr)			56.000	-	1	
Zinc			46.000	-	1	
SOLUBLE HEAVY METALS						
Antimony (Sb)		mg/kg	60	-	1	KS G ISO 8124-3 ⁽¹⁾ ISO 8124-3 hydrochloric acid 0,07M

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
Arsenic (As)	mg/kg	25	-	1	KS G ISO 8124-3 ⁽¹⁾ ISO 8124-3 hydrochloric acid 0,07M
Barium (Ba)		1000			
Cadmium (Cd)		75	-		
Chromium (Cr)		60	-		
Mercury (Hg)		60	-		
Lead (Pb)		90			
Selenium		500	-		

PAPER/ PACKAGING AND SIMILAR

For packaging, it is required compliance to the requirements specified in the tables relating to the constituent raw materials, as well as to the specifications indicated below					
PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
ALKYLPHENOLS (AP) (Tab. 1)	mg/kg	n.d*	100 (sum)	10	ISO 21084
ALKYLPHENOLS ETHOXYLATES (APEO) (Tab. 2)	mg/kg	100 (sum)		10	EN ISO 18254-1
FORMALDEHYDE	mg/kg	75		5	JIS L 1041 EN 1541
TOTAL HEAVY METALS	CADMIUM	mg/kg	100 (sum)	Lead, Cadmium, Mercury: 1 Chromium VI: 3	Acid digestion + analysis by ICP-MS/OES Lead also CPSC-CH-E-1002-08.3 CPSC-CH-E-1001-08.3 (metal) CPSC-CH-E1003-09.1 (coating) Chromium VI methods specific for the material
	CHROMIUM VI				
	MERCURY				
	LEAD				
PHTHALATES (Tab. 9)	mg/kg	DEHP,DBP,BBP,DINP, DNOP, DIBP: 100 (each) Others: 500 mg/kg (sum)		50 (each)	Rif: CPSC-CH-C1001-09.3 LC-DAD-MS GC-MS
PENTACHLOROPHENOL (PCP)	mg/kg	5		0,05	POP Regulation (EU) No 2019/1021
PVC		USAGE BANNED		N/A	Analisis by FT-IR+ Beilstein Test

ADHESIVES AND GLUES

PARAMETER		UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	DETECTION LIMIT	METHODS
ORGANOTIN COMPOUNDS (Tab. 8)		mg/kg	TBT/ TPhT/TBTO: n.d* Others: 1		TBT: 0,1 Others: 0,2	CEN ISO/TS 16179
FORMALDEHYDE		mg/kg	75		16	EN ISO 14184-1 GB/T 2912.1
PHTHALATES (Tab. 9)		mg/kg	DEHP,DBP,BBP,DINP: 50 , DNOP: 100 Others: 500 mg/kg sum)		50	EN ISO 14389 CPSC-CH-C1001-09.4 ISO 8124-6
POLYCYCLIC AROMATIC HYDROCARBONS (PAH) (Tab. 10)		mg/kg	0,5	1	0,2	AfPS GS 2019
ISOCYANATES (Tab. 11)		mg/kg	n.d*		1	RIF. EN 13130-8
RESIDUAL SOLVENTS (Tab. 16)	CHLORINATED SOLVENTS	mg/kg	α-chlorotoluene : 1 GROUP A: 500 (sum) GROUP B 50 (sum)		0,05	Solvent extraction and analysis by GC-MS HS-GCMS
	VOC		Benzene: 5 Methyl Alcohol: 1000 N-exane: 150 Toluylen diisocyanate: 100 Toluene:200			
	OTHERS SOLVENTS		DMF: 50 NMP: 100 DMAc: 300 2-methoxyethanol: 10 Others 500	DMF: 200 NMP: 500 DMAc: 500 2-methoxyethanol: 10 Others 500	0,05	Solvent extraction and analysis by GC-MS HS-GCMS
SHORT CHAIN CHLORINATED PARAFFIN SSSCCP C10-C13		mg/kg	50		50	Extraction + analysis by byGC/MS EN ISO 18219-1
MEDIUM CHAIN CHLORINATED PARAFFINS MCCC C14-C17		mg/kg	100		100	Extraction + analysis by byGC/MS Rif. EN ISO 18219-2
POLYCHLOROBIPHENYLS (PCB) POLYCHLORONAPHTHALENES (PCN) (Tab. 14)		mg/kg	PCB: 0,1 (each) PCN: 1		PCB: 0,1 PCN: 1	EPA 3540C + EPA 8082A EPA 3550C + EPA 8270E

HYGIENE AND CLEANING OF FEATHERS AND DOWN

PARAMETER	UNIT	LIMIT VALUE KIDS (0-16 YEARS)	LIMIT VALUE ADULTS (>16 YEARS)	METHODS
ALKYLPHENOLS (AP) (Tab. 1)	mg/kg	10 (sum)		GB/T 14272
ALKYLPHENOLS ETHOXYLATES (APEO) (Tab. 2)	mg/kg	100 (sum)		GB/T 14272
OXIGEN INDEX	mg O ₂ /100 g	10		ASTM D-4522
		20		EN 1884
		4,8		JIL L1903
OIL AND GREASE CONTENT	%	0,5 - 2		EN 1163
TURBIDITY	mm	≥ 500		EN 1164
MICROBIOLOGICAL STATE	CFU/g	Mesophil aerobic bacteria 1.000.000 Faecal streptococci 100 Silphide reducing clostridium 100 salmonella: absent in 20 g		EN 1884

ADDITIONAL REQUIREMENTS FOR PRODUCTS INTENDED FOR CHILDREN FOR US MARKET

The table 19 shows the regulated substances in the USA, for products intended for children. Those substances must not be used intentionally by the suppliers. In the event that use cannot be avoided, the supplier must inform the brands of the OTB group with which the supply relationship exists.

If the total concentration of each chemical substance in raw materials/finished products is inferior to 100 mg/kg, traces of the presence are tolerated. Whether the value is over 100 mg/kg, the supplier must immediately inform the brand.

The table lists the chemical substances that fits in this casuistry (excluding the exceptions described in the table, according to the specific restrictions written in the related sections of this document). For kid products in the USA, the limit of total concentration is 100 mg/kg.

OTB PRODUCT SAFETY REQUIREMENTS

MECHANICAL REQUIREMENTS, PRODUCTS INTENDED FOR CHILDREN 0-16 YEARS OLD

The list below contains the mechanical requirements, that will have to be followed from the initial stage of the development of finished products' prototypes (footwear, garments, accessories), intended for children (0-16 years).

Those products that can be classified as toys, would have to be in compliance with all the requirements of CE certification. It will be required to suppliers to show evidence of not-conformity through a test report compliant to EN-71.

MECHANICAL REQUIREMENTS OF GARMENT TRIMS (Including Buttons and Interchangeable Accessories)

PARAMETER	PARTICULAR REQUIREMENTS		BABY REQUIREMENT (0-3 YEARS)	KID REQUIREMENT (4-16 YEARS)	METHOD
SMALL PARTS (not-applicable to not-padded textile components)	Maximum Size:	Applicable Force:	NO SMALL PARTS	NOT APPLICABLE	HR4040/16 CFR 1501 / EN 71-1 / GB 31701/ BS 7907/ EN 16792 CEN/TS 17394-1/2/3/4
	> 6 mm	>70 N			
	between 3 and 6 mm	>50 N			
	≤ 3 mm	strong washing (annex C of BS 7907)			
SHARP EDGES			NO SHARP EDGES	NO SHARP EDGES	16 CFR 1500.49 / EN 71-1 / GB 31702/ ASTM 963 4.7
SHARP POINTS			NO SHARP POINTS	NO SHARP POINTS	16 CFR 1500.48-53 / CEN/TR 16792 / EN 71-1 / GB 31702/ ASTM 963 4.8
LACES			IN COMPLIANCE WITH THE NORM	IN COMPLIANCE WITH THE NORM	EN 14682 / GB 31701 / 16 CFR 1120/ ASTM F1816
MAGNETS			NOT ALLOWED	KIDS 5- 8 YEARS: NOT ALLOWED KIDS 8-16 YEARS: MAGNETIC FLUX INDEX < 50 Kg ² mm ² AND IN COMPLIANCE WITH SMALL PARTS REQUIREMENT – THE LABEL MUST CONTAIN SPECIFIC GUIDELINES ABOUT THE PRESENCE OF MAGNETIC ELEMENTS	ISO 8124-1 / EN 71-1

PARAMETER	PARTICULAR REQUIREMENTS	BABY REQUIREMENT (0-3 YEARS)	KID REQUIREMENT (4-16 YEARS)	METHOD
BUTTONS		Seaming with double machine closure onto the last stitch. Reinforce raw fabric wherever necessary. Buttons looking like food banned from usage	Buttons looking like food banned from usage	
PAILLETES		To be flat-fixed with 3 stitches, at least. Paillettes must be compliant with Attachment C of EN 16792 (durawash cleansing) + American norm 15 cfr 1500	To be flat-fixed with enough stitches. The seam should not scratch the skin (use interlining)	
NOT ACCESSIBLE PAILLETES		Same requirements as paillettes. They must be made inaccessible by the usage of a dense net, firmly seamed to the garment (in this case not subjected to cleansing according to BS 7907 Annex C)		
BEADS		BANNED FROM USAGE	To be firmly fixed, tight to the garment, with proper stitches	
GLITTER		FALLING GLITTER BANNED FROM USAGE	-	
BOWS, TAPES, POM POM, TASSELS AND SIMILARS		Not allowed in presence of cut yarns. Whether applied, they must be secured with two fixing stitches, at least	-	
STONEWASH		No stone residuals in pockets or within garment folds (suffocation risk)	-	
STRASS, STUDS AND SIMILARS		BANNED FROM USAGE	-	
EMBROIDERIES, APPLICATIONS, SEWN OR FLOATING YARNS		Free and floating yarns < 10 mm in hands and feet areas. For embroideries and applications <10 mm even if internal. Single filaments with interlining whether in skin contact. Embroideries and applications: securely fixed with stitches to avoid detachment, whether abrading have to be protected by interlining, should not degrade upon cleansing.	Single filaments with interlining whether in skin contact. Embroideries and applications: securely fixed with stitches to avoid detachment, whether abrading have to be protected by interlining, should not degrade upon cleansing.	
HOODS		0-18 months: not allowed for nightwear. For daily clothes prevent suffocation during garment design and development		
VELCRO		From 0 to 18 months, Velcro must be soft. For all ages: <ul style="list-style-type: none"> Abrasive part must not come in contact with the skin The closure must not be constricting Corners must be rounded 	<ul style="list-style-type: none"> Abrasive part must not come in contact with the skin The closure must not be constricting Corners must be rounded 	

PARAMETER	PARTICULAR REQUIREMENTS	BABY REQUIREMENT (0-3 YEARS)	KID REQUIREMENT (4-16 YEARS)	METHOD
Elastic cuffs		They don't have to be tight and cause reduced blood supply		
ZIP		In the neck area they must be protected to avoid abrasions. Children's trousers must have protective straps > 2 cm wide, properly fastened. The zip puller must not hang under garments that reach ankle height Puller length < 7.5 cm from zip puller		16 CFR 1501 + 1500.48-53 EN 16732+ CEN/TR 16792

TEXTILE FLAMMABILITY

Paragraph 11.2 shows the flammability requirements for raw materials, clothing and textile accessories, in accordance with the provisions of current regulations.

SCOPE	SIZE	REQUIREMENTS	COUNTRY	METHOD
CHILD TEXTILE PRODUCTS	0-16 YEARS	Plain surface textile fabrics ⁽²⁾ : they must belong to Class 1; Raised surface textile fabrics ⁽³⁾ : they must belong to Class 1. In scope for these requirements: <ul style="list-style-type: none"> Fabrics of the outer layer liners if they can be exposed under normal use conditions EXCEPTIONS: <ul style="list-style-type: none"> fabrics in wool, acrylic, modified acrylic, polyester, polyamide, polypropylene, or fabrics in combination of the aforementioned fibers <ul style="list-style-type: none"> fabrics weighing 90 g / m² or more 	China	GB/T 14644
PAJAMAS / NIGHTWEAR AND BEDROOM / HOMEWEAR CHILD	0-16 YEARS	REGULAR FIT: fire resistant and self-extinguishing according to the standard.	USA	16 CFR 1615 (0-6 years) 16 CFR 1616 (7-14 years) Tests must be carried out at CPSC accredited laboratories
		ADHERENT FIT: refer to the requirements listed in 16 CFR 1515 and 1516 and to the requirements of 16 CFR 1610 and 16 CFR 1611		16 CFR 1615 (0-6 years) 16 CFR 1616 (7-14 years) + 16 CFR 1610 e 16 CFR 1611 Tests must be carried out at CPSC accredited laboratories
		REGULAR FIT: the average length of the burn measured on 5 samples must not exceed 178 mm; moreover, there must not be more than one sample with a burn length equal to 254 mm (at the total length of the sample).	CANADA	Method F-17
		ADHERENT FIT: flame propagation time > 7 seconds (test in accordance with the standard CGSB CAN / CGSB 4.2 No. 27.5		
		Flame propagation time in length and in width: ≥12 sec in the direction of the length and in the direction of the width Measurement of the burning time of the specimen in the length and width sense > 10 seconds	AUSTRALIA	AS/NZS 1249:2014 ISO 6941 ISO 10047
ABBIGLIAMENTO DA NOTTE ADULTO E BAMBINO	0-16 YEARS	Before 17 sec.: <ul style="list-style-type: none"> no breakage of the control wire (520 mm from the ignition point) no ignition of the filter paper by inflamed residues 	The Netherlands	EN 1103

SCOPE	SIZE	REQUIREMENTS	COUNTRY	METHOD
ADULT AND CHILD NIGHTWEAR	ADULT	Before 10 sec: <ul style="list-style-type: none"> no breakage of the control wire (520 mm from the ignition point) no ignition of the filter paper by inflamed residues 	The Netherlands	EN 1103
	EVERY AGE	Complies with BS 5722 (or adequate labeling): <ul style="list-style-type: none"> no breakage of the control wire (300 mm from the ignition point) before 25 seconds no breakage of the control wire (600 mm from the ignition point) before 50 seconds. 	UK	BS 5722; BS 5438; BS 5651
ADULT AND CHILD APPAREL	EVERY AGE	Children's clothing products (up to 175 cm): must not have a burning time \leq 7 sec. Adult clothing products: Flame spread over 127 mm should not be $<$ 4 seconds.	NORWAY	ASTM D1230-61
		Clothing products and fabrics: should not have a burning time \leq 5 sec.	SWEDEN	ASTM D1230-61
		The spread of the flame over 127 mm must not be $<$ 4 seconds.	The Netherlands	ASTM D1230
		Textile materials, including yarns, must not be flammable and must not have a rapid spread of flame on the surface.	SWISS	SN EN 1101; SN EN 1102; SN EN 1103
		Plain surface textile fabrics ⁽²⁾ : they must belong to Class 1 (average flammability time \geq 3.5 sec) Raised surface textile fabrics ⁽³⁾ : they must belong to Classes 1 (average flammability time $>$ 7 sec. Or between 0 and 7 sec. Without substrate burns) and Class 2 (average flammability time between 4 and 7 seconds included with substrate burns) EXCEPTIONS: <ul style="list-style-type: none"> fabrics in wool, acrylic, modified acrylic, polyester, polyamide, polyolefin, polypropylene, or fabrics in combination of the aforementioned fibers flat surface fabrics weighing 88.2 g / m² or more (taking into account the uncertainty of the weight measurement, perform the test if the weight is $<$90 g / m) NOTE: <ul style="list-style-type: none"> Sweatshirts with flat surface (Class 1) that can be worn inside out where they have raised fibers (Class 1 or 2), must comply with Class 1 Accessories and decorative elements can change the flammability of the base fabric <ul style="list-style-type: none"> Synthetic furs, chenille, silk / viscose voile, velvets, are at high risk 	USA	16 CFR Parts 1610 Tests on child apparel must be carried out at CPSC accredited laboratories. The tests for adults and children must be accompanied respectively by a Children or General Certificate of Conformity issued by the importer to whom it is necessary to provide all the relevant information
PLASTIC AND VINYL FILMS	EVERY AGE	Flame propagation rate $<$ 1.2 inch / sec. ($<$ 3cm / sec) In scope: <ul style="list-style-type: none"> Plastic / vinyl films with thickness \leq0.254 mm <ul style="list-style-type: none"> Fabrics coated or coated with plastic vinyl film. The vinyl plastic film must be tested according to 16 CFR 1611 and the underlying fabric according to 16 CFR 1610 (where they can be separated). If they are not separable, the test must be performed in accordance with 16 CFR 1610 or if this can damage the film, according to 16 CFR 1611 	USA	16 CFR 1611 Tests must be carried out at CPSC accredited laboratories

SCOPE	SIZE	REQUIREMENTS	COUNTRY	METHOD
TEXTILE PRODUCTS	EVERY AGE	Flame propagation timing: >3.5 seconds for plain surface textile fabrics > 4 seconds for raised surface textile fabrics; in addition, the ignition or melting of its base fibers must not occur.	CANADA	CAN/CGSB 4.2 N. 27.5-94
		Flame propagation timing: •> 3.5 seconds for plain surface textile fabrics •> 4 seconds for raised surface textile fabrics; furthermore, ignition or melting of its base fibers must not occur.	SWISS	SN EN 1101; SN EN 1102; SN EN 1103

(1): Korean Market only

(2): Plain surface textile fabrics: any fabric which an intentionally raised fabric or yarn surface

(3): Raised surface textile fabrics: any textile fabric with an intentionally raised fabric or yarn surface (flocked, fleece, fabrics with hairiness)

SUBSTANCES LIST, TABLE

TAB. 1 - ALKYLPHENOLS (AP)	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
4-(1,1,3,3-TetCopperthylbutyl)-phenol; 4-(t-Octyl)phenol	140-66-9	Precursors of surfactant molecules in many detergents and dispersing agents. In textile production they can be used or found in non-ionic surfactants detergents with excellent solubilizing, emulsifying and dispersing properties. They are also found in abrasive agents, impregnating agents, emulsifiers / dispersants for colorants and prints, finishing auxiliaries, spinning oils, softeners, colorants and pigment preparations, polyester wadding and down / feather fillings. They are also used in leather manufacturing as degreasing, emulsifying, and dispersing agents. They can be found from raw material to finished product.
4-Nonylphenol (linear and branched)	25154-52-3	
4-Nonylphenol, (branched)	84852-15-3	
4-Octylphenol (linear)	1806-26-4	
Nonylphenol (NP)	104-40-5 , Various	
Nonylphenol, branched	90481-04-2	
Octylphenol, branched	27193-28-8	
Octylphenol (OP)	Various	

Tab. 2 - ALCHIFENOLI ETHOXYLATES (APEO)	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
4-Nonylphenol, ethoxylated	26027-38-3	Precursors of surfactant molecules. In textile production they can be used or found in non-ionic surfactants detergents with excellent solubilizing, emulsifying and dispersing properties. They are also found in abrasive agents, impregnating agents, emulsifiers / dispersants for colorants and prints, finishing auxiliaries, spinning oils, softeners, colorants and pigment preparations, polyester wadding and down / feather fillings. They are also used in leather manufacturing as degreasing, emulsifying, and dispersing agents.
4-Nonylphenol, ethoxylated , branched	127087-87-0	
4-Nonylphenyl-polyethylene glycol	9016-45-9	
Isononylphenol-ethoxylated	37205-87-1	
Nonylphenol Ethoxylates NPEO (1-18)	Various	
Octylphenol Ethoxylates OPEO (1-18)	Various	
Octylphenoethoxylate, branched	68987-90-6 e 9036-19-5	
Polyoxyethylene nonylphenylether, branched (NPEs 3-18)	68412-54-4	
Polyoxyethylene t-octylphenyl ether (OPEs 3-18)	9002-93-1	

Tab. 3 - ASBESTOS	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Actinolite	77536-66-4	ASBESTOS is a fibrous silicate mineral belonging to the mineralogical series of serpentine and amphiboles. Asbestos is resistant to fire, chemical and biological agents, abrasion, and wear; it has remarkable mechanical resistance and high flexibility due to its fibrous structure; it is sound-absorbing and heat-insulating. The fibers obtained by grinding the mineral can be spun to produce fire-resistant fabrics (such as those used for firefighters' garments) or furnishing fabrics. Now its usage is prohibited, it is not possible to find it in fabrics except in old, recycled fabrics.
Amosite	12172-73-5	
Anthophyllite	77536-67-5	
Chrysotile	2001-29-5	
Crocidolite	12001-28-4	
Tremolite	77536-68-6	

Tab. 4A - BIOCIDES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
2,4,5-T	93-76-5	<p>BIOCIDES are substances or mixtures used to destroy, eliminate, prevent the action and make harmless any harmful organism (such as bacteria, algae, insects, mites, animal or plant parasites, rodents). They can be used for the preservation of fibrous or polymerized materials such as leather, rubber, paper or textile products, by controlling the microbiological deterioration.</p> <p>They can be used to be incorporated into textiles, fabrics, masks, paints and other articles or materials in order to produce treated articles with disinfectant properties.</p> <p>Or even in additives for liquid detergents or in powdered laundry or in bleaches.</p> <p>Tab. A shows some pesticides which also fall into the category of BIOCIDES.</p> <p>The term pesticides is used frequently but it is more correct to refer to the category of pesticides and plant protection products. These are synthetic or natural substances used for plant / animal treatments, aimed at protecting against diseases or parasites. (Herbicides, pesticides, insecticides, acaricides, fungicides).</p> <p>The possible presence in clothing, footwear, leather goods and accessories may be due to treatments of the raw materials or their use in the cultivation of vegetable textile fibers, or drugs for veterinary use in farms.</p> <p>Wet treatments with temperatures above 80 ° C, carried out during the processing phases, generally eliminate these residues.</p>
2,4-D	94-75-7	
Aldrine	309-00-2	
Azinophosetyl	2642-71-9	
Azinophosmethyl	86-50-0	
Bromophos-ethyl	4824-78-6	
Captafol	2425-06-1	
Carbaryl	63-25-2	
Chlordane	57-74-9	
Chlordecone (Kepone)	143-50-0	
Chlordimeform	6164-98-3	
Chlorphenvinphos	470-90-6	
Coumaphos	56-72-4	
Cyfluthrin	68359-37-5	
Cyhalothrin	91465-08-6	
Cypermethrin	52315-07-8	
DDD	53-19-0, 72-54-8	
DDE	3424-82-6, 72-55-9	
DDT	50-29-3, 789-02-6	
DEF	78-48-8	
Deltamethrin	52918-63-5	
Diazinon	333-41-5	
Dichlorprop	120-36-5	
Dicofol	115-32-2	
Dicrotophos	141-66-2	
Dieldrin	60-57-1	
Dimethoate	60-51-5	
Dinoseb and salts	88-85-7	
DTTB	57648-21-2	
Endosulfan (α)	959-98-8	
Endosulfan (β)	33213-65-9	
Endrine	72-20-8	
Esfenvalerat	66230-04-4	
Fenvalerate	51630-58-1	
Heptachlor	76-44-8	
Heptachlorepoxyde	1024-57-3	
Hexachlorobenzene	118-74-1	
α-Hexachlorocyclohexane	319-84-6	
β-Hexachlorocyclohexane	319-85-7	
δ-Hexachlorocyclohexane	319-86-8	
Lindane (g-HCH)	58-89-9	
Malathion	121-75-5	
MCPA	94-74-6	
MCPB	94-81-5	

Mecroprop	93-65-2
Metamidophos	10265-92-6
Methoxychlor	72-43-5
Mirex	2385-85-5
Monocrotophos	6923-22-4
Parathion	56-38-2
Parathion-methyl	298-00-0
Permethrin	52645-53-1
Phosdrin/Mevinphos	7786-34-7
Profenophos	41198-08-7
Propethamphos	31218-83-4
Quinalphos	13593-03-8
Toxaphen (Camphechlor)	8001-35-2
Trifluralin	1582-09-8
Tab. 4B - BIOCIDES	
2-Fenilfenolo/orto-fenilfenolo (OPP)	90-43-7
2-Octil-2H-isotiazol-3-one (OIT)	26530-20-1
2-(Tiocianometiltio)benzotiazolo (TCMTB)	21564-17-0
4-Cloro-3-metilfenolo (PCMC)	59-50-7

Tab. 5- CHLOROBENZENES AND CHLOROTOLUENES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Benzyl Chloride	100-44-7	<p>CHLOROBENZENES AND CHLOROTOLUENES are mainly used as intermediates in the synthesis of other chemicals or can be present as impurities in chemical formulations (such as those of colorants and biocides).</p> <p>They can be used as a carrier in the dyeing process of synthetic fibers, especially polyester, as swelling agents to spread the disperse dyes in the fibers and allow their absorption at low ambient temperature and pressure.</p> <p>They can also be used for dyeing some wool-polyester blends.</p> <p>Currently their use in Europe has been replaced by processes carried out under pressure and with the help of high temperatures.</p> <p>They can also be used as leveling agents for dyeing, printing and coating of fabrics and leather, as degreasers, defoliant, fumigants, deodorants, solvents, disinfectants, insecticides, herbicides.</p>
Chlorotoluenes (isomers)	25168-05	
2-chlorotoluene	95-49-8	
3-chlorotoluene	108-41-8	
4-chlorotoluene	106-43-4	
Chlorobenzene	108-90-7	
Dichlorobenzenes (isomers)	25321-22-6	
1,2-dichlorobenzene	95-50-1	
1,3-dichlorobenzene	541-73-1	
1,4-dichlorobenzene	106-46-7	
Dichlorotoluenes (isomers)	29797-40-8	
2,3-dichlorotoluene	32768-54-0	
2,4-dichlorotoluene	95-73-8	
2,5-dichlorotoluene	19398-61-9	
2,6-dichlorotoluene	118-69-4	
3,4-dichlorotoluene	95-75-0	
Hexachlorobenzene	118-74-1	
Pentachlorobenzene	608-93-5	
Pentachlorotoluene	877-11-2	
Tetrachlorobenzenes (isomers):		
1,2,3,4-tetrachlorobenzene	634-66-2	
1,2,3,5-tetrachlorobenzene	634-90-2	
1,2,4,5-tetrachlorobenzene	95-94-3	

Tetrachlorotoluenes (isomers)	
a,a,a,2-tetrachlorotoluene	2136-89-2
a,a,2,6-tetrachlorotoluene	81-19-6
a,a,a,4-tetrachlorotoluene	5216-25-1
2,3,4,5-tetrachlorotoluene	76057-12-0
2,3,4,6-tetrachlorotoluene	875-40-1
2,3,5,6-tetrachlorotoluene	1006-31-1
Trichlorobenzenes (isomers)	12002-48-1
1,2,3-trichlorobenzene	87-61-6
1,2,4-trichlorobenzene	120-82-1
1,3,5-trichlorobenzene	108-70-3
Trichlorotoluenes (isomers)	
2,3,6-trichlorotoluene	2077-46-5
2,4,5-trichlorotoluene	6639-30-1
a,a,a-trichlorotoluene	98-07-7

TAB. 6A – CARCINOGENIC DYES	C.I. No	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Acid Orange 24	C.I. 20 170	1320-07-6	<p>COLORANTS CARCINOGENIC or suspected carcinogenic other than those which may release carcinogenic aromatic amines. Mainly used in the dyeing of polyester and acetate but also of polyamide.</p>
Acid Red 26	C.I. 16 150	3761-53-3	
Acid Red 114		6459-94-5	
Acid Violet 49		1694-09-3	
Basic Blue 26		2580-56-5	
Basic Green 4 (chloride)		569-64-2	
Basic Green 4 (free)		10309-95-2	
Basic Green 4 (oxolate)		2437-29-8; 18015-76-4	
Basic Red 9	C.I. 42 500	569-61-9	
Basic Violet 1		8004-87-3	
Basic Violet 3		548-62-9	
Basic Violet 14	C.I. 42 510	632-99-5	
Basic Yellow 2		24-6527-2	
Direct Black 28	c.i. 35 260	6745-67-1	
Direct Black 38	C.I. 30 235	1937-37-7	
Direct Black 91	C.I. 30 400	6739-62-4	
Direct Blue 6	C.I. 22 610	2602-46-2	
Direct Blue 15		2429-74-5	
Direct Blue 76	C.I. 24 411	16143-79-6	
Direct Blue 218	C.I. 24 401	28407-37-6	
Direct brown 95	C.I. 30 145	16071-86-6	
Direct Red 28	C.I. 22 120	573-58-0	
Disperse Blue 1	C.I. 64 500	2475-45-8	
Disperse Orange 11	C.I. 60 700	82-28-0	
Disperse Orange 149		85136-74-9	
Direct Yellow 1	C.I. 22 250	6472-91-9	
Disperse Yellow 3	C.I. 11 855	2832-40-8	

Disperse yellow 23	C.I. 26 070	6250-23-3
Pigment Yellow 34	C.I. 77603	1344-37-2
Pigment Red 104	C.I. 77 605	12656-85-8
Solvent Blue 4	C.I. 44 045:1	6786-83-0
Solvent Violet 8		561-41-1
Solvent Yellow 1	C.I. 11 000	60-09-3
Solvent Yellow 2		60-11-7
Solvent Yellow 3		97-56-3

TAB. 6B- ALLERGENIC DISPERSE DYES	C.I. No	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Disperse Blue 1	C.I. 64 500	2475-45-8	<p>ALLERGENIC DYES are mainly disperse dyes: a class of dyes that penetrate the synthetic fibers without dissolving since they haven't polar for water solubilization. They are used for dyeing synthetic fibers such as polyester and polyamides. Some disperse dyes are also carcinogenic even though they do not contain azo groups capable of releasing carcinogenic aromatic amines (*).</p>
Disperse Blue 3	C.I. 61 505	2475-46-9	
Disperse Blue 7	C.I. 62 500	3179-90-6	
Disperse Blue 26	C.I. 63 305	3860-63-7	
Disperse Blue 35		12222-75-2	
Disperse Blue 102		12222-97-8	
Disperse Blue 106		12223-01-7	
Disperse Blue 124		61951-51-7	
Disperse Brown 1		23355-64-8	
Disperse Orange 1	C.I. 11 080	2581-69-3	
Disperse Orange 3	C.I. 11 005	730-40-5	
Disperse Orange 37/76/59	C.I. 11 132	13301-61-6; 12223-33-5; 51811-42-8	
Disperse Orange 149 (*)		85136-74-9	
Disperse Red 1	C.I. 11-110	2872-52-8	
Disperse Red 11	C.I. 62-015	2872-48-2	
Disperse Red 17	C.I. 11 210	3179-89-3	
Disperse Yellow 1	C.I. 11 855	119-15-3	
Disperse Yellow 3	C.I. 10 375	2832-40-8	
Disperse Yellow 9	C.I. 10 375	6373-73-5	
Disperse Yellow 39		12236-29-2	
Disperse Yellow 49		54824-37-2	
Disperse Yellow 56		54077-16-6	
Disperse Yellow 23 (*)		6250-23-3	
Solvent Yellow 14	C.I.C 12 055	842-07-09	

TAB. 6C – CLEAVABLE ARYLAMINES DERIVED FROM AZODYES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
2-naphthylamine	91-59-8	<p>AROMATIC AMINES are aromatic hydrocarbons (with one or more benzene rings) to which at least one amino GROUP (NH₂), an imino GROUP (NH) or a nitrogen atom has been added.</p> <p>Carcinogenic (or potentially such) aromatic amines can be released by reductive cleavage from some azo dyes (azoic group –N = N- between two aromatic rings_) or they can be detected as impurities.</p>
2-Naphthylammoniumacetate	553-00-4	
2,4-diaminoanisole sulphate	39156-41-7	
2,4-Xylidine	95-68-1	
2,6-Xylidine	87-62-7	
2,4,5-trimethylaniline	137-17-7	
2,4,5-trimethylaniline hydrochloride	21436-97-5	
3,3'-dichlorobenzidine; 3,3'-dichlorobiphenyl-4; 4'-ylenediamine	91-94-1	
3,3'-dimethoxybenzidine; o-dianisidine	119-90-4	
3,3'-dimethylbenzidine; 4,4'-bi-o-toluidine	119-93-7	
4-amino azobenzene	60-09-3	
4-chloro-o-toluidine	95-69-2	
4-chloro-o-toluidinium chloride	3165-93-3	
5-nitro-o-toluidine	99-55-8	
4-chloroaniline	106-47-8	
4-methoxy-m-phenylenediamine; 2,4-diaminoanisole	615-05-4	
4-methyl-m-phenylenediamine; 2,4-toluenediamine	95-80-7	
4-4'-methylenedianiline; 4-4'-diaminodiphenylmethane	101-77-9	
4,4'-methylenedi-o-toluidine	838-88-0	
4,4'-methylene-bis-(2-chloro-aniline); 2,2'-dichloro-4,4'-methylenedianiline	101-14-4	
4,4'-oxydianiline	101-80-4	
4-4'-thiodianiline	139-65-1	
6-methoxy-m-toluidine; p-cresidine	120-71-8	
aniline	62-53-3	
benzidine	92-87-5	
biphenyl-4-ylamine; 4 aminobiphenyl; xenylamine	92-67-1	
o-aminoazotoluene; 4-amino-2',3-dimethylazobenzene; 4-o-tolyazo-otoluidine	97-56-3	
o-anisidine; 2-methoxyaniline	90-04-0	
o-toluidine; 2-aminotoluene	95-53-4	

TAB. 6D- OTHERS FORBIDDEN COLORANTS	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Component 1: C ₃₉ H ₂₃ ClCrN ₇ O ₁₂ S ₂ Na	118685-33-9	
Component 2: C ₄₆ H ₃₀ CrN ₁₀ O ₂₀ S ₂ 3Na		
Navy Blue	Component 1	

TAB. 7A- FLUORINATED COMPOUNDS - PERFLUOROCTANESULFONATES (PFOS) AND RELATED SUBSTANCES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid(1:1)	251099-16-8	<p>Polyfluorinated Chemical Compounds (PFCs) are a family of chemicals with carbon-fluorine bonds. They are used in the finishing of many industrial processes and in consumer products, as they give water-repellent, oil-repellent and stain resistance properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE). They are found as degradation residues of hydro and oil repellent resins applied to textile materials. They can be present in the environment as persistent pollutants and degradation products. To date, there are replacement products that allow their replacement.</p>
Bis(2-hydroxyethyl)ammonium perfluorooctane sulfonate (PFOS-NH-(OH) ₂)	70225-14-8	
N-Ethyl-Perfluorooctanesulfonamide (N-Et-FOSA)	4151-50-2	
N-Ethyl_Perfluorooctanesulfonamidoethanol (N-Et-FOSE)	1691-99-2	
N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA)	31506-32-8	
N-Methyl_Perfluorooctanesulfonamidoethanol (N-Me-FOSE)	24448-09-7	
Perfluorooctanesulfonamide (PFOSA)	754-91-6	
Perfluorooctanesulfonate (PFOS)	1763-23-1	
Perfluorooctane sulfonate ammonium salt (PFOS-NH ₄)	29081-56-9	
Perfluorooctane sulfonate K-salt (PFOS-K)	2795-39-3	
Perfluorooctane sulfonate Li-salt (PFOS-Li)	29457-72-5	
Perfluorooctanesulfonylfluoride (POSF)	307-35-7	
Tetraethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₄)	56773-42-3	

TAVOLA 7B – FLUORINATED COMPOUNDS - PERFLUOROCTANOIC ACID (PFOA) AND SALTS AND RELATED SUBSTANCES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Perfluoro octanoic Acid (PFOA)	335-67-1	<p>Polyfluorinated Chemical Compounds (PFCs) are a family of chemicals with carbon-fluorine bonds. They are used in the finishing of many industrial processes and in consumer products, as they give water-repellent, oil-repellent and stain resistance properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE). They are found as degradation residues of hydro and oil repellent resins applied to textile materials. They can be present in the environment as persistent pollutants and degradation products. To date, there are replacement products that allow their replacement.</p>
PFOA SALTS		
Ammonium perfluorooctanoate (APFO)	3825-26-1	
Ethanaminium, N,N,N-triethyl-, salt with perfluorooctanoic acid (1:1)	98241-25-9	
Perfluorooctanoic acid, silver salt (Ag-PFOA)	335-93-3	
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	
Potassium perfluorooctanoate (K-PFOA)	2395-00-8	
Sodium perfluorooctanoate (Na-PFOA)	335-95-5	
PFOA RELATED SUBSTANCES		
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	
1H,1H,2H,2H,Perfluoro-1-octanol (6:2 FTOH)	647-42-7	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9	
1H,1H,2H,2H- Perfluorodecylacrylate (10:2 FTA)	17741-60-5	
1H,1H,2H,2H-Perfluorodecyl metacrylate (8:2 FTMA)	1996-88-9	
1H,1H,2H,2H,Perfluorododecane-1-ol (10:2 FTOH)	865-86-1	
1H,1H,2H,2H-Perfluorododecanesulfonic acid (10:2 FTS)	120226-60-0	
1H,1H,2H,2H,Perfluorohexane-1-ol (4:2 FTOH)	2043-47-2	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	

1H,1H,2H,2H,Perfluorooctylacrylate (6:2 FTA)	17527-29-6
1H,1H,2H,2H-Perfluorooctyl metacrylate (6:2 FTMA)	2144-53-8
2H,2H--Perfluorodecanoic acid (H2PFDA)	27854-31-5
2H,2H,3H,3H-Heptadecafluoroundecanoic (H4PFUnA)	34598-33-9
2H,2H,3H,3H,-Perfluoroundecanoic acid (4HPFUnA)	34598-33-9
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid (HFPO-DA)	13252- 13-6
7H-Dodecafluoroheptanoic acid (7HPFHpA)	1546-95-8
8:2 diPAP	678-41-1
8:2 monoPAP	57678-03-2
perfluorocarboxylic acids and salts (PFCA)	
Heptafluorobutyric acid (PFBA)	375-22-4
Alcoli fluorotelomeri (FTOHs) F(CF ₂) _n CH ₂ CH ₂ OH	
Bis[2-(perfluorooctyl)ethyl] Phosphate (8:2 diPAP)	678-41-1
C8-PFPA	40143-78-0
C8-PFSi	3102-79-2 e vari
Ethyl perfluorooctanoate (EtPFOA)	3108-24-5
heptadecafluorooctanesulphonyl fluoride (PFOSF)	307-35-7
HFPO-DA	13252-13-6
N-Etil-Ethylperfluorooctanesulfonamide (N-Et-FOSA)	4151-50-2
N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide (N-Et-FOSE)	1691-99-2
N-Methyl-perfluorooctane-1-sulphonamide (N-Me-FOSA)	31506-32-8
N-Methylperfluorooctanesulfonamidoethanol (N-Me-FOSE)	24448-09-7
Methyl perfluorooctanoate (MePFOA)	376-27-2
Mono[2-(perfluorooctyl)ethyl] Phosphate (8:2 monoPAP)	57678-03-2
Fluorotelomer Olefins (FTOs)	
Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)	172155-07-6
Perfluorobutane sulfonic acid (PFBS)	375-73-5 59933-66-3 749861-23-2
Perfluorobutanesulfonate K-salt (PFHxS-K)	29420-49-3
Perfluorodecanesulfonate ammonium salt (PFDS-NH ₄)	67906-42-7
Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8
Perfluorodecane sulfonic acid (PFDS)	335-77-3
Perfluorodecanoic acid (PFDA)	335-76-2
Perfluorododecanoic acid (PFDoA)	307-55-1
Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	68555-66-8
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8
Perfluoroheptanoic acid (PFHpA)	375-85-9
Perfluorohexane sulfonic acid (PFHxS)	355-46-4
Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-15
Perfluorohexanoic acid (PFHxA)	307-24-4
Perfluorononanoic acid (PFHNA)	375-95-1
Polyfluorinated iodide (8:2 FTI)	2043-53-0
Polyfluorinated silanes (C8-PFSi)	3102-79-2 e Vari
Perfluorononanoate Na-salt (PFN)	21049-39-8

Perfluorooctanoyl fluoride (F-PFO)	335-66-0
Perfluorooctyl iodide (PFOI)	507-63-1
Perfluorooctyl phosphonic acid (C8-PFPA)	40143-78-0
Perfluorooctan sulfonamide (PFOSA)	754-91-6
Perfluorooctanoate ammonium salt (APFN)	4149-60-4
Perfluoropentanoic acid (PFPeA)	2706-90-3
Perfluorotetradecanoic acid (PFTeA)	376-06-7
Perfluorotridecanoic acid (PFTrA)	72629-94-8
Perfluoroundecanoic acid (PFUnA)	2058-94-8

TAB. 8 - ORGANOTIN COMPOUNDS	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Bis(tributyltin)oxide (TBTO)	56-35-9	<p>Organic Tin compounds are compounds that contain at least one Tin-Carbon bond.</p> <p>They are used as fungicides in marine paints.</p> <p>In the clothing sector they can be used in plastic materials as thermal stabilizers for PVC production or as catalysts in the production of polymeric materials (polyurethane, polyester or silicone polymers). It is also possible to find them in inks, metallic glitter or in silicone-based finishing processes (due to their elastomeric properties and water repellency).</p> <p>They can also be used as biocides, fungicides or preservatives in fabrics and skin.</p>
Dibutyltin (DBT)	1002-53-5; Various	
Dibutyltin dichloride (DBTC)	683-18-1	
Dibutyltin hydrogen borate	75113-37-0	
Dimethyltin (DMT)	23120-99-2; Various	
Dioctyltin (DOT)	15231-44-4; Various	
Diphenyltin (DPHT)	1011-95-6; Various	
Dipropyltin (DPT)	2406-60-2	
Monobutyltin (MBT)	Vari	
Monomethyltin (MMT)	83221-98-1	
Monooctyltin (MOT)	15231-57-9	
Monophenyltin (MPHT)	2406-68-0	
Tetrabutyltin (TeBT)	1461-25-2; Various	
Tetraethyltin (TeET)	597-64-8; Various	
Tributyltin (TBT)	Vari	
Tricyclohexyltin (TCyHT)	6056-50-4; Various	
Trimethyltin (TMT)	17272-57-0; Various	
Triphenyltin (TPHT)	668-34-8; Various	
Tripropyltin (TPT)	761-44-4	
Trioctyltin (TOT)	250252-89-2 Various	

TAB. 9 – PHTHALATES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear	84777-06-0	<p>Phthalic acid esters (phthalates) are a class of compounds used in the plastic industry as plasticizers to increase the flexibility and deformability of materials</p> <p>They can be found in textile processes and shoe / leather goods processes in the stages of printing, coating / coating, varnishing, lacquering or even in plastics, adhesives and glues.</p>
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5	
Benzylbutylphthalate (BBP)	85-68-7	
Di-(2-ethylhexyl)-phthalate (DEHP)	117-81-7	
Di-(2-methoxyethyl)-phthalate (DMEP)	117-82-8	
Dibutylphthalate (DBP)	84-74-2	
Di-C6-8-branched alkylphthalates, C7 rich (DIHP)	71888-89-6	
Di-C7-11-branched and linear alkylphthalates (DHNUP)	68515-42-4	
Di-cyclohexylphthalate (DCHP)	84-61-7	
Di-ethylphthalate (DEP)	84-66-2	
Di-hexylphthalate, branched and linear (DHxP)	68515-50-4	
Di-iso-butylphthalate (DIBP)	84-69-5	
Di-isodecylphthalate (DIDP)	26761-40-0, 68515-49-1	
Di-iso-hexylphthalate branched and linear (DIHxP)	71850-09-4, 68515-50-4, 84-75-3	
Di-iso-nonylphthalate (DINP)	28553-12-0, 68515-48-0	
Di-isooctylphthalate (DIOP)	27554-26-3	
Di-isopentyl-phthalate (DIPP)	605-50-5	
Di-methylphthalate (DMP)	131-11-3	
Di-N-hexylphthalate (DNHP)	84-75-3	
Di-nonylphthalate (DNP)	84-76-4	
Di-n-octylphthalate (DNOP)	117-84-0	
Di-n-pentylphthalate (DnPP)	131-18-0	
Di-n-propylphthalate (DPrP)	131-16-8	
Di-pentylphthalate (n-, iso-, or mixed) (DPP)	131-18-0, 605-50-5, 776297-69-9, 84777-06-0	

TAB. 10- POLYCYCLIC AROMATIC HYDROCARBONS (PAH)	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
GROUP A		<p>They are hydrocarbons having a complex structure consisting of two or more aromatic rings.</p> <p>They can be present as impurities or as degradation products in some raw materials used in the production of chemical mixtures and dyes or originate in combustion processes.</p> <p>They are found in rubber, plastics as softeners or extenders; in plasticizing oils, lacquers, ash for black rubber pigment, in shoe soles and in printing pastes for screen printing.</p> <p>Naphthalene is mainly used as a raw material for the manufacture of synthetic tanning agents (synthanes) and for the manufacture of active substances in the dispersing agents used during leather processing.</p> <p>Dispersing agents for textile dyes may contain naphthalene residues as well as synthetic tanning agents (synthanes) used in tanning processes.</p>
Benzo(a)anthracene (BaA)	56-55-3	
Benzo(b)fluoranthene (BbFA)	205-99-2	
Benzo(j)fluoranthene (BjFA)	205-82-3	
Benzo(k)fluoranthene (BkFA)	207-08-9	
Benzo(a)pyrene (BaP)	50-32-8	
Benzo(e)pyrene (BeP)	192-97-2	
Chrysene (CHR)	218-01-9	
Dibenzo(a,h)anthracene (DBAaH)	53-70-3	
GROUP B		
1-Methylpyrene	2381-21-7	
Acenaphthene	83-32-9	
Acenaphthylene	208-96-8	

Anthracene	120-12-7	
Benzo(g,h,i)perylene	191-24-2	
Cyclopenta(c,d)pyrene	27208-37-3	
Dibenzo(a,e)pyrene	192-65-4	
Dibenzo(a,h)pyrene	189-64-0	
Dibenzo(a,i)pyrene	189-55-9	
Dibenzo(a,l)pyrene	191-30-0	
Fluoranthene	206-44-0	
Fluorene	86-73-7	
Indeno(1,2,3-c,d) pyrene	193-39-5	
Naphthalene	91-20-3	
Phenanthrene	85-01-8	
Pyrene	129-00-0	

TAB. 11- ISOCYANATES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
1,6-hexamethylene diisocyanate trimer	28182-81-2	
1,6-hexamethylene diisocyanate biuret	4035-89-6	
2,6-Diisopropylphenyl isocyanate	28178-42-9	
4,4'Methylenedicyclohexyl diisocyanate-metilendicicloesil-di-isocianato (4,4-MDI)	5124-30-1	
Diphenylmethane 2,2'-diisocyanate (2,2-MDI)	2536-05-2	
Diphenylmethane 2,4'-diisocyanate (2,4-MDI)	5873-54-1	
Diphenylmethane 4,4'-diisocyanate (4,4'MDI)	101-68-8	
Hexamethylene diisocyanate (HMDI)	822-06-0	
Isophorone diisocyanate	4098-71-9	
MDI mixed isomers	26447-40-5	
Naphthylene-1,5-diisocyanate	3173-72-6	
Phenylisocyanate	103-71-9	
TetCopperthylxylene diisocyanate	2778-42-9	
Toluene-2,4-diisocyanate	584-84-9	
Toluene-2,6-diisocyanate	91-08-7	
Toluene-2,4/2,6-diisocyanate mixture	26471-62-5	

TAB. 12- MERCURY COMPOUNDS	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Phenylmercury 2-ethylhexanoate	13302-00-6	
Phenylmercury acetate	62-38-4	
Phenylmercury neodecanoate	26545-49-3	
Phenylmercury octanoate	13864-38-5	
Phenylmercury propionate	103-27-5	MERCURY COMPOUNDS can be found in paints and pesticides.

TAB. 13 - PENTACHLOROPHENOL (PCP) TETRACHLOROPHENOLS (TeCP) TRICHLOROPHENOLS (TriCP) DICHLOROPHENOLS (DCP) MONOCHLOROPHENOLS(MCP)	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
Trichlorophenol (TriCP), mixed isomers	25167-82-2	Chlorophenols are polychlorinated compounds, i.e. they are a GROUP of substances with chlorine atoms bounded to phenols. Pentachlorophenol (PCP) and tetrachlorophenols are used as preservatives and pesticides to prevent the formation of mold during the storage and transport of leathers, fabrics or as insecticides in the cultivation of cotton, or as impregnating agents in textile processes. They can also be found as impurities in dyes and preservatives in printing pastes.
2,3,5-trichlorophenol	933-78-8	
2,3,6-trichlorophenol	933-75-5	
2,4,5-trichlorophenol	95-95-4	
2,4,6-trichlorophenol	88-06-2	
3,4,5-trichlorophenol	609-19-8	
Tetraclorophenol (TeCP), mixed isomers	25167-83-3	
2,3,4,5-tetraclorophenol	4901-51-3	
2,3,4,6-tetraclorophenol	58-90-2	
2,3,5,6-tetraclorophenol	935-95-5	
Pentachlorophenol(PCP)	87-86-5	
Diclorophenol (DCP), mixed isomers	25167-81-1	
2,3-Diclorophenol	576-24-9	
2,4-Diclorophenol	120-83-2	
2,5-Diclorophenol	583-78-8	
2,6-Diclorophenol	87-65-0	
3,4-Diclorophenol	95-77-2	
3,5-Diclorophenol	591-35-5	
Monoclorophenol, mixed isomers	25167-80-0	
2-Clorophenol	95-57-8	
3-Clorophenol	108-43-0	
4-Clorophenol	106-48-9	
Triclosan	3380-34-5	

TAB. 14- POLYCHLOROBIPHENYLS (PCB) E POLYCHLORONAPHTHALENES (PCN)	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
POLYCHLOROBIPHENYLS (PCB)		PCBs and PCNs are a class of organic compounds where the structure is similar to that of biphenyl and naphthalene, respectively, in which one or more hydrogen atoms are replaced by chlorine atoms. They are also used as additives in paints, pesticides, copying papers, adhesives, sealants, flame retardants and fixatives for microscopy.
2,4,4'-trichlorobiphenyl (PCB 28)	7012-37-5	
2,2',5,5'-tetrachlorobiphenyl (PCB 52)	35693-99-3	
3,3',4,4'-tetrachlorobiphenyl (PCB 77)	32598-13-3	
2,2',4,5,5'-pentachlorobiphenyl (PCB 101)	37680-73-2	
2,3,3',4,4'-pentachlorobiphenyl (PCB 105)	32598-14-4	
2,3,4,4',5-pentachlorobiphenyl (PCB 114)	74472-37-0	
2,3',4,4',5-pentachlorobiphenyl (PCB 118)	31508-00-6	
2',3,4,4',5-pentachlorobiphenyl (PCB 123)	65510-44-3	
3,3',4,4',5-pentachlorobiphenyl (PCB 126)	57465-28-8	
2,2',3,4,4',5'-hexachlorobiphenyl (PCB 138)	35065-28-2	
2,2',4,4',5,5'-hexachlorobiphenyl (PCB 153)	35065-27-1	
2,3,3',4,4',5-hexachlorobiphenyl (PCB 156)	38380-08-4	
2,3,3',4,4',5'-hexachlorobiphenyl (PCB 157)	69782-90-7	
2,3',4,4',5,5'-hexachlorobiphenyl (PCB 167)	52663-72-6	
3,3',4,4',5,5'-hexachlorobiphenyl (PCB 169)	32774-16-6	

2,2',3,4,4',5,5'-heptachlorobiphenyl (PCB 180)	35065-29-3
2,3,3',4,4',5,5'-heptachlorobiphenyl (PCB 189)	39635-31-9
POLYCHLORONAPHTHALENES (PCN)	
2-chloronaphthalene	91-58-7
1,2-dichloronaphthalene	20250-69-3
1,2,3-trichloronaphthalene	50402-52-3
1,2,3,4-tetrachloronaphthalene	20020-02-4
1,2,3,5,7-pentachloronaphthalene	53555-65-0
1,2,3,4,5,6-hexachloronaphthalene	58877-88-6
1,2,3,4,5,6,7-heptachloronaphthalene	58863-14-2
Octachloronaphthalene	2234-13-1

TAB. 15 - FLAMES RETARDANTS	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
2-Ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)	183658-27-7	<p>FLAMES RETARDANTS are chlorinated brominated compounds or organophosphates (phosphoric acid esters), which are very stable and are able to reduce the spread of flame. Therefore they are added to many products to make them less flammable.</p> <p>To date, their use in production processes is prohibited with rare exceptions.</p> <p>They were used in the production of clothing and shoes, as lubricating additives, in metalworking fluids, plasticizers for rubber, paints and adhesives.</p>
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	
Bis(2-ethylhexyl)-2,3,4,5-tetrabromophtalate (TBPH)	26040-51-7	
Bis (2,3- dibromopropyl)phosphate (BIS-BP)	5412-25-9	
Boric Acid (HB)	11113-50-1; 10043-35-3	
Diboron trioxide (BTO)	1303-86-2	
Disodium Tetraborate (DBT)	12179-34-3; 1303-96-4; 1330-43-4	
Octabromodiphenyl ether (OctaBDE)	32536-52-0; 337513-72-1	
Heptabromodiphenylether (HeptaBDE)	446255-22-7; 0207122-16-5; 68928-80-3; Various	
Hexabromodiphenylether (HexaBDE)	36483-60-0; 68631-49-2; 207122-15-4	
Nonabromodiphenylethers (NonaBDE)	Various	
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9; 5436-43-1	
Decabromobiphenyl (DecaBB)	13654-09-6	
Decachlorobiphenyl (PCB)	2051-24-3	
Dibromobiphenyls (DiBB)	57422-77-2; Various	
Heptabromobiphenyls (HeptaBB)	88700-06-5, Various	
Hexabromobiphenyl (HexaBB)	60044-26-0, Various	
Monobromobiphenyl (MonoBB)	2052-07-5	
Nonabromobiphenyls (NonaBB)	69278-62-2, Various	
Octabromobiphenyls (OctaBB)	67889-00-3, Various	
Pentabromobiphenyls (PentaBB)	59080-39-6, Various	
Polybrominated Biphenyls (hexa-) (PBBs)	59536-65-1, Various	
Tetrabromobiphenyls (TetraBB)	60044-24-8	
Tribromobiphenyls (TriBB)	59080-34-1; Various	
Tris-(aziridinyl)-phosphineoxide (TEPA)	5455-55-1	
Tris(2,3- dibromopropyl)phosphate (TRIS)	126-72-7	
Decabromodiphenyl ether (DecaBDE)	1163-19-5	
Tris (2- chloroethyl)phosphate (TCEP)	115-96-8	
Tris-(2-chloro-1-methylethyl)phosphate (TCPP)	13674-84-5	

Hexabromocyclododecane (HBCDD)	3194-55-6; 25637-99-4
Tetraboron disodium heptaoxide, hydrate (TBHO)	12267-73-1
Tetrabromobisphenol A (TBBPA)	79-94-7
Tetrabromobisphenol A bis(2,3-dibromopropyl ether) (BDDP)	21850-44-2
Tris (1,3- dichloro-2-propyl)phosphate (TDCPP)	13674-87-8
Tri-o-cresyl phosphate (o-TCP)	78-30-8
Pentabromodiphenyl ether (PentaBDE)	32534-81-9
Trixylyl phosphate (TXP)	25155-23-1
2,2-bis(bromoethyl)-1,3-propanediol (BBMP)	3296-90-0

TAB. 16 - SOLVENTS	CAS NUMBER	GROUP	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
CHLORINATED SOLVENTS			
α-chlorotoluene	100-44-7	A	CHLORINATED SOLVENTS They are halogenated aliphatic solvents with excellent properties in dissolving other substances and are also used as chemical intermediates (for example in pesticides and dyes), or as washing solvents and carriers in textile finishing, swelling in polyurethane foams, industrial detergents, in thermoplastic adhesives for printing works, as finishing and cleaning agents, in dyes.
1,1 dichloroethylene	75-35-4		
1,1,1 trichloroethane	71-55-6		
1,2,3-trichloropropane	96-18-4		
1,1,1,2 tetrachloroethane	630-20-6		
1,1,2,2 tetrachloroethane	79-34-5		
Carbon tetrachloride	56-23-5		
Hexachloroethane	67-72-1		
Pentachloroethane	76-01-7		
Tetrachloroethylene	127-18-4		
Trichloromethane (Chloroform)	67-66-3		
1,2 dichloroethane	107-06-2	B	OTHERS SOLVENTS Organic SOLVENTS can be found in adhesives, colors, sprays, printing processes. Benzene and toluene are solvents commonly found in glues, while Dimethylformamide is commonly found in polyurethanes. Dimethylformamide (DMF) is also used as an organic solvent in the production of plastics, adhesives and coatings. Due to their nature and uses, they may be contained in traces in many of the chemicals obtained by synthetic processes.
1,1,2 trichloroethane	79-00-5		
Methylene Chloride	75-09-2		
Trichloroethylene	79-01-6		
VOC			
Benzene	71-43-2		
Methyl alcohol	67-56-1		
N-exane	110-54-3		
Toluene	108-88-3		
Toluylene diisocyanate	26471-62-5		
OTHER SOLVENTS			
2-methoxyethanol	109-86-4		
Dimethylformamide (DMF)	68-12-2		
N,N-dimethylacetamide (DMAc)	127-19-5		
n-methyl-2-pyrrolidone (NMP)	872-50-4		
N-methylacetamide	79-16-3		
Nitrobenzene	98-95-3		
Xylenes (meta-, ortho-, para-)	1330-20-7;95-47-6; 108-38-3; 106-42-3		

TAB. 17 – DIOXINS AND FURANS	CAS NUMBER	GROUP	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)	
1,2,3,7,8-pentabromodibenzo-p-dioxin	109333-34-8	A	They are polychlorinated aromatic chemical compounds formed by carbon, hydrogen, oxygen and chlorine, divided into two families: dibenzo-p-dioxins (properly "dioxins") and dibenzo-p-furans (or "furans"). They are used for the production of wood preservatives, pesticides, in the leather and leather industry in general and in the plastics industry.	
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4			
2,3,7,8-tetrabromodibenzofuran	67733-57-7			
2,3,7,8-tetrabromodibenzo-p-dioxin	50585-41-6			
2,3,7,8-tetrachlorodibenzo-furan	51207-31-9			
2,3,7,8-tetrachlorodibenzo-p-dioxin	1746-01-6			
2,3,4,7,8-pentabromodibenzofuran	131166-92-2			
2,3,4,7,8-pentachlorodibenzo-furan	57117-31-4			
1,2,3,4,7,8-Hexachlorodibenzo-furan	70648-26-9			B
1,2,3,4,7,8-hexabromdibenzo-p-dioxin	110999-44-5			
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6			
1,2,3,6,7,8-hexabromodibenzo-p-dioxin	110999-45-6			
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7			
1,2,3,7,8,9-hexabromodibenzo-p-dioxin	110999-46-7			
1,2,3,7,8,9-hexachlorodibenzofuran	57117-41-6			
1,2,3,7,8-pentabromodibenzofuran	107555-93-1			
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9			
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3			
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9			
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6			
2,3,4,6,7,8-Hexachlorodibenzo-furan	60851-34-5			
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9	C		
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4			
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9			
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0			
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7			

TAB. 18 - NITROSAMINES	CAS NUMBER	DESCRIPTION AND USAGE (FOR REFERENCE ONLY, NOT EXHAUSTIVE)
N-nitrosodibutylamine (NDBA)	924-16-3	Organic compounds containing nitrogen bonded to a nitrous group linked to an amino nitrogen. NITROSAMINES are mainly used to give different properties to natural and synthetic rubber. They are used as constituents of accelerators, antioxidants and reinforcing agents, to give strength and elasticity to the final product They can also be generated, starting from their precursors, as secondary products of the production and storage processes of rubber (for example in rubber used for shoe soles)
N-nitrosodiethylamine (NDEA)	55-18-5	
N-nitrosodimethylamine (NDMA)	62-75-9	
N-nitrosodipropylamine (NDPA)	621-64-7	
N-Nitrosoethylphenylamine (NEPhA)	612-64-6	
N-nitroso-N-methylaniline	614-00-6	
N-nitrosomorpholine (NMOR)	59-89-2	
N-nitrosopiperidine (NPIP)	100-75-4	
N-nitrosopyrrolidine	930-55-2	
N-nitroso-N-ethylaniline	612-64-6	

TABLE 19- SUBSTANCES REGULATED ON CHILD PRODUCTS FOR THE AMERICAN MARKET	CAS NUMBER	LIMIT	MATRIX (where specifically provided)
1,1,2,2-Tetrachloroethane (Solvente)	79-34-5	Unintentional use (< 100 mg/kg)	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
1,4-Dioxane	123-91-1	1 mg/kg	
2,4-Diaminotoluene (Azocolorante)	95-80-7	20 mg/kg textile; 30 mg/kg leather and fur	Textiles, leather and fur, plastics/rubber
2-Aminotoluene (Azocolorante)	95-53-4	20 mg/kg textile; 30 mg/kg leather and fur	Textiles, leather and fur, plastics/rubber,
2-Ethylhexanoic acid	149-57-5	Unintentional use (< 100 mg/kg)	
2-ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB) (Ritardante di fiamma)	183658-27-7	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
2-Ethyl-hexyl-4-methoxycinnamate	5466-77-3	Unintentional use (< 100 mg/kg)	
2-Methoxyethanol (Solvents)	109-86-4	10 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
3,3'-Dimethylbenzidine (Azo COLORANTS)	119-93-7	20 mg/kg textile; 30 mg/kg leather and fur	Textiles, leather and fur, plastics/rubber,
4-chloroaniline (Azo COLORANTS)	106-47-8	20 mg/kg textile; 30 mg/kg leather and fur	Textiles, leather and fur, plastics/rubber,
4-Hydroxybenzoic acid	99-96-7	Unintentional use (< 100 mg/kg)	
4-Nonylphenol (Nonylphenols and Octylphenols)	104-40-5	n.d.*	Textiles, leather and fur, wood, /corozo/bamboo and similar
4-Nonylphenol, branched (Nonylphenols and Octylphenols)	84852-15-3	n.d.*	Textiles, leather and fur, wood, /corozo/bamboo and similar
4-Nonylphenol, branched, ethoxylated (Nonylphenoethoxylates and Octylphenoethoxylates)	127087-87-0	Unintentional use sum< 100 mg/kg)	Textiles, leather and fur, wood, /corozo/bamboo and similar
4-Nonylphenol, ethoxylated (Nonylphenoethoxylates and Octylphenoethoxylates)	26027-38-3	Unintentional use sum< 100 mg/kg))	Textiles, leather and fur, wood, /corozo/bamboo and similar
4-Nonylphenyl-polyethylene glycol (Nonylphenoethoxylates and Octylphenoethoxylates)	9016-45-9	Unintentional use sum< 100 mg/kg))	Textiles, leather and fur, wood, /corozo/bamboo and similar
4-Octylphenol (Nonylphenols and Octylphenols)	1806-26-4	n.d.*	Textiles, leather and fur, wood, /corozo/bamboo and similar
4-tert-Octylphenol (Nonylphenols and Octylphenols)	140-66-9	n.d.*	Textiles, leather and fur, wood, /corozo/bamboo and similar
Acetaldehyde	75-07-0	Unintentional use sum< 100 mg/kg))	
Acrylonitrile	107-13-1	Unintentional use sum< 100 mg/kg)	
Aniline	62-53-3	20 mg/kg textile; 30 mg/kg leather and fur	Textiles, leather and fur, plastics/rubber,
Antimony (Heavy Metals)	7440-36-0	Extractable: 30 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass and crystals
Antimony Compounds (Heavy Metals)	various	Extractable: 30 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass and crystals
Arsenic (Heavy Metals)	7440-38-2	Extractable: 0,2 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass and crystals
Arsenic Compounds (Heavy Metals)	various	Extractable: 0,2 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass and crystals
Arsenic trioxide	1327-53-3	Unintentional use (< 100 mg/kg)	
Benzene (Solvents)	71-43-2	5	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Benzophenone-2 (Bp-2)	131-55-5	Unintentional use (< 100 mg/kg))	
Bis (2-ethylhexyl) tetrabromophthalate (TBPH) (Flame Reatardants)	26040-51-7	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Bis(chloromethyl)propane-1,3-diyl tetrakis-(2-chloroethyl) bis(phosphate) (V6)	38051-10-4	Unintentional use (< 100 mg/kg))	
Bisphenol A (BPA)	80-05-7	Extractable: n.d.*	Platic/rubber
Bisphenol F (BPF)	620-92-8	Unintentional use (< 100 mg/kg)	
Bisphenol S (BPS)	80-09-1	Unintentional use (< 100 mg/kg)	
Butyl benzyl phthalate (BBP) (Phthalates)	85-68-7	50 mg/kg	Textile, leather and fur, plastic/rubber, footwear
Butyl paraben	94-26-8	Unintentional use (< 100 mg/kg)	
Butylated hydroxyanisole (BHA)	25013-16-5	Unintentional use (< 100 mg/kg)	
C.I. solvent yellow 14	842-07-9	n.d.*	

Cadmium (Heavy Metals)	7440-43-9	40 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass, and crystals
		100 mg/kg sum	Paper/package and similar, footwear
Cadmium Compounds (Heavy Metals)	various	40 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass, and crystals
		100 mg/kg sum	Paper/package and similar, footwear
Carbon disulfide	75-15-0	Unintentional use (< 100 mg/kg)	
Chlorinated paraffins	108171-26-2	Unintentional use (< 100 mg/kg)	
Cobalt (Co) (Heavy metals)	7440-48-4	Extractable 1 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass, and crystals
Cobalt Compounds (Heavy metals)	various	Extractable 1 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass, and crystals
Decabromodiphenyl ethane (DBDPE)	84852-53-9	Unintentional use (< 100 mg/kg)	
Decabromodiphenyl ether (BDE-209) (Flame Retardants)	1163-19-5	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Di-(2-methoxyethyl) phthalate (DMEP) (Phthalates)	117-82-8	500 mg/kg sum	Textile, leather and fur, plastic/rubber, footwear
Di-2-ethylhexyl phthalate (DEHP) (Phthalates)	117-81-7	50 mg/kg	Textile, leather and fur, plastic/rubber, footwear
Dicyclohexyl phthalate (DCHP) (Phthalates)	84-61-7	500 mg/kg sum	Textile, leather and fur, plastic/rubber, footwear
Diethyl phthalate (DEP) (Phthalates)	84-66-2	500 mg/kg sum	Textile, leather and fur, plastic/rubber, footwear
Diisobutyl phthalate (DIBP) (Phthalates)	84-69-5	50 mg/kg	Textile, leather and fur, plastic/rubber, footwear
Diisodecyl phthalate (DIDP) (Phthalates)	26761-40-0	500 mg/kg sum	Textile, leather and fur, plastic/rubber, footwear
Diisononyl phthalate (unbranched) (DINP) (Phthalates)	28553-12-0	50 mg/kg	Textile, leather and fur, plastic/rubber, footwear
Dimethyl arsenic acid	75-60-5	Unintentional use (< 100 mg/kg)	Textile, leather and fur, plastic/rubber, footwear
Di-n-butyl phthalate (DBP) (Phthalates)	84-74-2	50 mg/kg	Textile, leather and fur, plastic/rubber, footwear
Di-n-hexyl phthalate (DnHP) (Phthalates)	84-75-3	500 mg/kg sum	Textile, leather and fur, plastic/rubber, footwear
Di-n-octyl phthalate (DnOP) (Phthalates)	117-84-0	500 mg/kg sum	Textile, leather and fur, plastic/rubber, footwear
Dipentyl phthalate (DPP) (Phthalates)	131-18-0	500 mg/kg sum	Textile, leather and fur, plastic/rubber, footwear
Estragole	140-67-0	Unintentional use (< 100 mg/kg)	
Ethyl paraben	120-47-8	Unintentional use (< 100 mg/kg)	
Ethylbenzene	100-41-4	Unintentional use (< 100 mg/kg)	
Ethylene glycol	107-21-1	Unintentional use (< 100 mg/kg)	
Ethylene glycol monoethyl ether	110-80-5	Unintentional use (< 100 mg/kg)	
Ethylhexyl diphenyl phosphite (EHDPP)	1241-94-7	Unintentional use (< 100 mg/kg)	
Formaldehyde and formaldehyde releasing compounds i.e. substances that release formaldehyde added intentionally **)	50-00-0	16 mg/kg	Textile
		20 mg/kg	Textile, wood, /corozo/bamboo and similar, paper/package and similar, footwear
Hexabromocyclododecane (Flame Retardants)	25637-99-4	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Hexachlorobenzene (Biocides + Chlorobenzenes and Chlorotoluenes)	118-74-1	n.d.*	Textile, leather and fur
Hexachlorobutadiene (HCDB)	87-68-3	Unintentional use (< 100 mg/kg)	
Isopropylated triphenyl phosphite (IPTPP)	68937-41-7	Unintentional use (< 100 mg/kg)	
Lead (Heavy Metals)	7439-92-1	40 mg/kg	Jewelry
		90 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass, and crystals, footwear
		100 mg/kg i sum	Paper, Packaging and similar
Lead Compounds (Heavy Metals)	various	40 mg/kg	Jewelry
		90 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass, and crystals, footwear
		100 mg/kg sum	Paper, Packaging and similar

Mercury (Heavy Metals + Mercury Compounds)	7439-97-6	1 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar, metal parts, glass, and crystals
		Extractable	Jewelry
		100 mg/kg sum	Paper, Packaging and similar
Mercury Compounds (Heavy Metals + Mercury Compounds)	various	1 mg/kg	Textile, leather and fur
		Extractable	Jewelry
		100 mg/kg sum	Paper, Packaging and similar
		10 mg/kg	Plastic/rubber, wood, /corozo/bamboo and similar, metal parts, glass, crystals
Methyl ethyl ketone	78-93-3	Unintentional use (< 100 mg/kg)	
Methyl mercury	22967-92-6	Unintentional use (< 100 mg/kg)	
Methyl paraben	99-76-3	Unintentional use (< 100 mg/kg)	
Methylene chloride (Solvents)	75-09-2	50 mg/kg sum	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Molybdenum + i suoi composti	7439-98-7 / vari	Unintentional use (< 100 mg/kg)	
N-Methylpyrrolidone (Solvents)	872-50-4	1000 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
N-nitrosodimethylamine (N-nitrosamines)	62-75-9	0,5 mg/kg	Plastic/rubber, footwear
N-Nitrosodiphenylamine	86-30-6	Unintentional use (< 100 mg/kg)	
Nonyl phenol (Nonylphenols and Octylphenols)	140-40-5	n.d.*	
Octamethylcyclotetrasiloxane	556-67-2	Unintentional use (< 100 mg/kg)	
Pentachlorobenzene (Chlorobenzenes and Chlorotoluenes)	608-93-5	1 mg/kg	Textile, leather, and fur
Perfluorooctanesulfonates (PFOS)	1763-23-1	1 µg/m ²	Textile, leather, and fur
Perfluorooctanoic Acid (PFOA)	335-67-1	1 µg/m ²	Textile, leather, and fur
Phenol	108-95-2	Unintentional use (< 100 mg/kg)	
Phthalic anhydride	85-44-9		
Polyoxyethylene nonylphenylether, branched (NPEs 3-18) (Nonylphenoethoxylates and Octylphenoethoxylates)	68412-54-4	100 mg/kg sum	Textile, leather, and fur, paper/packaging and similar
Propyl paraben	94-13-3	Unintentional use (< 100 mg/kg)	
Short-chain chlorinated paraffins (SCCP)	85535-84-8	50 mg/kg	Textile, leather, and fur, plastic/rubber
Styrene	100-42-5	Unintentional use (< 100 mg/kg)	
Tetrabromobisphenol A (TBBPA) (Flame Retardants)	79-94-7	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Tetrachloroethene (Solvents)	127-18-4	1000 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Toluene (Solvents)	108-88-3	200 mg/kg	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Tricresyl phosphate (TCP)	1330-78-5	Unintentional use (< 100 mg/kg)	
Tri-n-butyl phosphate (TNBP)	126-73-8	Unintentional use (< 100 mg/kg)	
Triphenyl phosphate (TPP)	115-86-6	Unintentional use (< 100 mg/kg)	
Tris (2,3-dibromopropyl) phosphate (TDBPP) (Flame Retardants)	126-72-7	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) (Flame Retardants)	13674-87-8	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Tris(1-chloro-2-propyl) phosphate (TCPP) (Flame Retardants)	13674-84-5	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Tris(2-chloroethyl) phosphate (TCEP) (Flame Retardants)	115-96-8	n.d.*	Textiles, leather and fur, plastics/rubber, wood, /corozo/bamboo and similar
Unbekanntes Farbmittel 94 (SIN list) (Nonylphenoethoxylates and Octylphenoethoxylates)	37205-87-1	100 mg/kg sum	Textile, leather, and fur, paper/packaging and similar

**Among these as an example: Diazolidinyl urea, Quaternium-15, DMDM hydantoin (1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione), 5-Bromo-5-nitro-1,3-dioxane, Imidazolidinyl urea, Methenamine, Sodium N-(hydroxymethyl) glycinate

Luogo e Data

Timbro e firma del Fornitore