

AEFFE GROUP PRODUCT RESTRICTED SUBSTANCES LIST (PRSL)

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GENERAL INFORMATION

This document lists the eco-toxicological safety requirements of the products that are mandatory or highly recommended on the main markets of destination and therefore specifically requested by AEFEE Group in addition to the obligations derived from the cogent regulation on the European market.

All Suppliers, for all types of products, shall make sure that what they supply complies with the ecological and toxicological requirements and the basic safety requirements indicated, which shall be understood to apply to all products, taking into account that the contents of this document represents the mandatory requirements from the date of issue/revision of the document and that the supplier must respect the requirements enforced from the date of supply of the product.

ECO-TOXICOLOGICAL AND SAFETY REQUIREMENTS OF THE PRODUCT

It is well known that many consumer products are required to comply with specific regulations, directives or laws with regard to the content of substances considered toxic or hazardous for human health or the environment, which may limit or prohibit the use of particular substances.

We tend to take it for granted that the manufacturers of the various types of products subject to restrictions, such as the products of the tanning industry or the textile manufacturers, like the producers of metal goods or parts for apparel, are aware of and comply with the limits foreseen by the European regulation no. 1907 of 18/12/2006 and its subsequent amendments, more commonly known as the REACH Regulation, which is compulsory for them.

It is also known that the products placed on the market have to be definable as “Safe” on the basis of the provisions, at the European level, of the Community Directive no. 2001/95/EC (now Regulation 2023/988 effective from 13/12/2024) also known as the General Product Safety Directive, incorporated, in Italy, into the broader Legislative Decree no. 206 of 2005, the so called Consumer Code, from which attention must also be given to the UE 528/2012 Regulation for the use of biocides on the market, the UE 1021/2019 Regulation related to persistent organic substances and the UE 1272/2008 Regulation concerning the classification of labelling and packaging of substances and mixtures also called CLP.

Considering that the regulatory provisions are not the same from one country to another, and that AEFEE S.p.A. offers its products for sale not only in Europe but also on the global market, in the **AEFFE GROUP’S Product Restricted Substances List (AEFFE PRSL)** we have identified the mandatory eco-toxicological and safety requirements at the time of issue/revision of the present document, based mainly, but not only, on the indications given by AFIRM (Apparel and Footwear International RSL Management Group) vers. 07/2022, in order to give the suppliers of the various materials traceability on which they can carry out the compliance evaluation of their products.

The **AEFFE PRSL** refers to products intended for adult’s apparel, accessories, footwear, including components.

AEFFE’s Suppliers must consult the AEFEE-PSRL in order to assess whether their products, depending on the raw materials used, the manufacturing process and the processing ingredients used to obtain the finished product, comply not only to the aforementioned mandatory regulations, but also to the other restrictions identified in the Data Sheet.

To support its Suppliers, AEFEE has defined a consultancy agreement with the BRACHI TESTING SERVICES Laboratory in Prato, to which they can refer free of charge, in order to identify the critical parameters of the various products and the necessary actions to take in order to reach their compliance.



ITALY HEAD QUARTIER Via Sabadell 162/21 59100 PRATO – ITALY Tel. 0574 591343 – Fax. 0574 593975 e-mail for consumer services: servizioclienti@brachi.it	CHINA HANGZHOU BRACHI TECHNOLOGICAL SERVICES CO. LTD Room 1102, NO. 9 building, NO.88 Jiangling Road, Binjiang District, 310051 Hangzhou, City, China. Tel: 0086 0571 82869965, Fax:0086057182869965 General Manager: Mr. Lawrence Lang lawrence.lang@brachi.com.cn	BANGLADESH BRACHI TESTING SERVICES (BD) LTD Dhaka office - House#07, Road#05, Block#F Banani, Dhaka 1213 Gazipur Lab - Plot : 21 & 22, Ananda Bag Mills Ltd, Masimpur, Nishat Nagar, Tongi, Gazipur Mobile +88 01894442380 Executive Director: Mr. Md. Abdul Mohaimin mohaimin@brachi.com.bd . Mobile +88 01775131473 Assistance Manager, Operations: Mr. Nazmul Mahadi Nazmul.mahadi@brachi.com.bd
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The following tables represent the potential risk that each type of substance has with regards to the various substances identified in the subsequent AEFEE's Product Restricted Substances List AEFEE PRSL.

The potential risk is indicated as level 1 (critical) Level 2 (suggested) White box (low risk) and follows the indications of the Key at the bottom of the Tables.

Substance	Natural Fibers	Synthetic Fibers	Natural & Synthetic Blends	Synthetic Coated Fabrics	Natural Leather & Fur Skin	Natural Materials	Metals	Other: Porcelain, Ceramic, Glass, Crystal, Etc.	Feathers & Down	Polymers								Coatings & Prints	Glue
										EVA	PU Foams	All other PU & TPU	Rubber Excludes Latex and Silicon Rubbers	Polycarbonate	ABS	PVC	All Other Foams, Plastics & Polymers		
Acetophenone & 2-Phenyl-2-Propanol										2									
Acidic & Alkaline Substances (pH)	1	1	1	1	1														
Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs), including all isomers	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1
Azo-amines & Arylamine salts	1A	1A	1A	1A	1A	1A			1A									1	
Bisphenols		1	1	1	1					2	2	2	2	1	2	2	2		
Brominated & Organophosphorus Substances	2B																		
Chlorinated Paraffins				2K	1					2	2	1	1	2	2	1	2		
Chlorophenols	2	2	2		2														
Chlorinated Benzenes & Toluenes		2	2	2															
Cyclosiloxanes	2	2	2														2C	2	
Dimethylfumarate (DMFu)					2														
Dyes, Forbidden & Disperse		1A	1A	1A														2	
Dyes, Navy Blue		2	2																
Fluorinated Greenhouse Gases																			
Formaldehyde	1	1	1	2	1	1D							2					1	1

Substance	Natural Fibers	Synthetic Fibers	Natural & Synthetic Blends	Synthetic Coated Fabrics	Natural Leather & Fur Skin	Natural Materials	Metals	Other: Porcelain, Ceramic, Glass, Crystal, Etc.	Feathers & Down	Polymers								Coatings & Prints	Glue
										EVA	PU Foams	All other PU & TPU	Rubber Excludes Latex and Silicon Rubbers	Polycarbonate	ABS	PVC	All Other Foams, Plastics & Polymers		
Heavy Metals, Chromium VI	2E	2F			1														
Heavy Metals, Extractable	1	1	1	2	1		2G			2	2	2	2	2	2	2	2	2	
Heavy Metals, Nickel Release							1												
Heavy Metals, Total	2H		2H	1	2		1	1J		1	1	1	1	1	1	1	1	1	2
Monomers: Styrene & Vinyl Chloride				1K									2L		2	1		1K	
N-Nitrosamines											2	2	2						
Organotin Compounds		2	2	1	2						1	1	1			1	1	1	1
Ortho-phenylphenol (OPP)	2	2	2	2	2													2	
Ozone-depleting Substances																			
Per- & Polyfluoroalkyl Substances (PFAS)	1M																		
Pesticides, Agricultural																			
Phthalates				1						1	1	1	1	2	2	1	1	1	1
Polycyclic Aromatic Hydrocarbons (PAHs)				2						1N	1N	1N	1			1N	1N	1N	1N
Quinoline		2	2																
Solvents / Residuals, DMFa				1							1	1						1P	1P
Solvents / Residuals, DMAC and NMP				1							2	2					2	2	2
Solvents / Residuals, Formamide										2								2	
UV Absorbers / Stabilizers										2	2	2	2	2	2	2	2		
Volatile Organic Compounds (VOCs)				2						2	2	2	2	2	2	2	2	2	1Q

A Level 1 for dyed/colored materials (non-white) only.
B Level 2 only if Flame Retardant use or contamination is suspected or if TPP use suspected in PU,TPU, or other polymeric materials.
C Level 2 for silicone polymers only.

D Level 1 for Wood, Paper, and Straw materials only.
E Level 2 for Wool materials only.
F Level 2 if extractable Chrome above 1 ppm only.
G Copper is exempt from restriction limits in Metal parts.
H Level 2 for plant-based fibers only; N/A for animal-based fibers.

J Level 1 for Cadmium and Lead only; Crystal is exempt for Lead.
K Level 1 for PVC materials only. Otherwise, Level 2.
L Level 2 for Styrene/Butadiene Rubbers (SBRs) only.

M Level 1 if PFAS use or contamination is suspected.
N Level 1 if Rubber or black Polymeric materials, otherwise Level 2.
P Level 1 for PU and PVC- based materials only.
Q Level 1 for glues fixed in final product

AEFFE's Product Restricted Substances List

TEXTILE			
Substance	Suitable Test Method Sample Preparation e Measurement	Limits Component, Materials in Finished Product	Reporting Limit Limits above which test results should be reported
Azo-amines and Arylamine Salts ⁽¹⁾	GB/T 17592 (GB/T 23344 for 4-Aminoazobenzene) EN ISO 14362-1/3 (part3 3 for 4- Aminoazobenzene)	≤ 20 mg/kg (each)	1 mg/kg
Free Aniline	EN ISO 14362-1 / GB/T 17592-1 (without reductive cleavage)	< 20 mg/kg	< 1 mg/kg
Dyes, Navy Blue Component 1: CAS 118685-33-9 C39H23ClCrN7O12S2-Na Component 2: CAS Not Assigned C46H30CrN10O20S2-Na Dyes Carcinogenic ⁽²⁾ Dyes Disperse ⁽³⁾	EN ISO 16373-2/3 DIN 54231	NOT DETECTED	15 mg/kg 30 mg/kg
Quinoline (CAS Nr. 91-22-5)	DIN 54231	≤ 50 mg/kg	10 mg/kg
Formaldehyde (CAS Nr. 50-00-0)	GB/T 2912.1 EN ISO 14184-1/3 JIS L 1041-2011 A (Japan Law 112)	≤ 75 mg/kg	16 mg/kg

Chlorophenols - Pentachlorophenol (PCP) - Tetrachlorophenol (TeCP) - Trichlorophenol (TriCP) - Monochlorophenol (MCP) - Dichlorophenol (DiCP)	EN 17134-2 GB/T 18414.1 - GB/T 18414.2 DIN 50009	PCP e TeCP ≤ 0,5 mg/kg, TriCP, DiCP e MCP (sum) ≤ 0,5 mg/kg	0,05 mg/kg
Ortho-phenylphenol (OPP) (CAS Nr. 90-43-7)	EN 17134-1 GB/T 18414.1 - GB/T 18414.2 DIN 50009	≤ 1,0 mg/kg (SASO Regulation)	1,0 mg/kg
Chlorinated Benzenes and Toluenes ⁽⁵⁾	EN 17137 (if α-chlorotoluene [benzilchloride cas 100-44-7], positive: confirmation LC-UV or GC-MS Head Space sample 1 g @75°C x 45 minutes)	Sum 1 mg/kg	0,1 mg/kg
Organotin Compounds ⁽⁶⁾	CEN ISO/TS 16179 EN ISO 22744-1/2 Screening for the Total Tin content, if positive, proceed with the Organic Tin Compounds determination	≤ 0,5 mg/kg TBT, TPhT ≤ 1,0 mg/kg Others	0,1 mg/kg
Flame Retardants ⁽⁷⁾	EN ISO 17881-1 (brominated flame retardants) EN ISO 1788-2 (phosphorated flame retardants) NOTE: Boron salts are determined as total boron content	≤ 5 mg/kg	1 mg/kg

Chlorinated Paraffins: Short-chain SCCP (CAS Nr. 85535-84-8) Medium-chain MCCP (CAS Nr. 85535-85-9)	EN ISO 22818 (SCCP / MCCP) GB/T 40263	Short-chain: ≤ 50 mg/kg Medium-chain: ≤ 100 mg/kg	30 mg/kg
Phthalates	CPSC-CH-C1001-09.4, EN ISO 14389 (7.1 Calculation based on weight of print only; 7.2 Calculation based on weight of print and textile if print cannot be removed). GB/T 20388	500 mg/kg (single substance), 1000 mg/kg (sum)	50 mg/kg
Pesticides and Herbicides, Agricultural ⁽⁸⁾	EPA 8081	< 0,2 mg/kg (each) ≤ 1,0 mg/kg (sum)	0,05 mg/kg
Alkylphenols (APs) - Nonilphenols (NP) mixed isomers 84852-15-3, 25154-52-3, 104-40-5, 11066-49-2 - Octilphenols (OP) mixed isomers 140-66-9, 1806-26-4, 27193-28-8	EN ISO 21084 GB/T 23322	Sum ≤ 10 mg/kg	1 mg/kg
Alkylphenol Ethoxylates (APEOs) - Nonylphenol ethoxylates (NPEOs) 68412-54-4, 9016-45-9, 127087-87-0, 37205-87-1, 26027-38-3, 104-35-8, 20427-84-3 - Octylphenol ethoxylates (OPEOs) 9002-93-1, 68987-90-6, 9036-19-5, 51437-89-9; 51437-90-2	EN ISO 18254-1 GB/T 23322	Sum APs+APEOs ≤ 100 mg/kg	1 mg/kg
PFAs substances ⁽¹²⁾ - Total Organic Fluorine	based on	50 mg/kg IF TOTAL ORGANIC FLUORINE	20 mg/kg

	ASTM D7359-18 EN 17813:2023 (C-IC)	POSITIVE Carry out PFOS/PFOA/PFCAS C9-C14 test	
PFAS -Perfluorooctane Sulfonate (PFOS), its Salts and related substances	CEN/TS 15968 EN 17681-1/2	$\leq 0,025$ mg/kg (PFOS) PFOS related substances < 1 mg/kg (sum)	$\leq 0,025$ mg/kg (PFOS) PFOS related substances < 1 mg/kg (sum)
PFAS - Perfluorooctanoic Acid (PFOA) its salts and related substances		PFOA and its salts < 25 µg/kg (sum) PFOA related substances < 1000 µg/kg (sum)	PFOA and its salts < 25 µg/kg (sum) PFOA related substances < 1000 µg/kg (sum)
PFAS - Perfluorohexane-1-sulphonic acid (PFHxS) its salts and related substances		PFHxS and its salts < 25 µg/kg (sum) PFHxS related substances < 1000 µg/kg (sum)	PFHxS and its salts < 25 µg/kg (sum) PFHxS related substances < 1000 µg/kg (sum)
PFAS - PFCAs C ₉ -C ₁₄ its salts and related substances		C ₉ -C ₁₄ PFCAs and its salts < 25 µg/kg (sum) C ₉ -C ₁₄ PFCAs related substances < 260 µg/kg (sum)	C ₉ -C ₁₄ PFCAs and its salts < 25 µg/kg (sum) C ₉ -C ₁₄ PFCAs related substances < 260 µg/kg (sum)

PFAS - other		Other < 1000 µg/kg	- Other < 1000 µg/kg
Total Lead (Pb)	EN 16711-1 CPSC-CH-E1002-08.3 Lead in paint and surface coatings: CPSC-CH-E1003-09.1	≤ 90 mg/kg	1 mg/kg
Total Cadmium (Cd)	EN 16711-1 based on CPSC-CH-E1002-08.3 Cadmium in paint and surface coatings: based on CPSC-CH-E1003-09.1	≤ 40 mg/kg	1 mg/kg
Total Mercury (Hg)	EN 16711-1	< 0,5 mg/kg	0,2 mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs) (Applicable to synthetic fibers and coated materials only) ⁽⁹⁾	AfPS GS 2019 EN 17132 EN ISO 16190	≤ 1,0 mg/kg (single substance) ≤ 10,0 mg/kg (sum)	0,1 mg/kg
Dimethylfumarate (DMFu)	ISO 16186 GB/T 26713	≤ 0,1 mg/kg	0,01 mg/kg
Chlorinated Solvents ⁽¹³⁾	Extraction HS-GCMS (45 min. at 120°C)	See Table	
Volatile Organic Compounds (VOCs) ⁽¹³⁾	Extraction HS-GCMS	See Table	

	(45 min. at 120°C)		
Other Solvents, Residual	EN 17131	See Table	
Asbestos ⁽¹⁰⁾	Microscopic examination	NOT DETECTED	
pH value	GB/T 7573 EN ISO 3071	4.0 ÷ 7.5	
Cyclosiloxanes (D4) 556-67-2 (D5) 541-02-6 (D6) 540-97-6	Extraction with solvent + GC-MS	< 1000 mg/kg	10 mg/kg
UV Absorbers / Stabilizers	ISO 24040 Extraction with THF, analysis GC/MS	< 1000 mg/kg	10 mg/kg
Dimethylacetamide [DMAc]	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
Dimethylformamide [DMFa]	ISO/TS 16189	< 200 mg/kg	10 mg/kg
Formamide	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
N-Methyl-2-pyrrolidon [NMP]	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
Styrene, Free	Extraction with Methanol, sonication 60 min@60 °C, analysis GC/MS	< 500 mg/kg	10 mg/kg
Vinylchloride	GB/T 4615 EN ISO 6401	< 5 mg/kg	1 mg/kg
Bisphenols ⁽¹⁴⁾	Extraction with THF at 60°C and determination with LC/MS	BPA < 1 mg/kg Other Bisphenols SUM < 1000 mg/kg	0,1 mg/kg
EXTRACTABLE HEAVY METALS			

Antimony (Sb)	EN 16711-2	$\leq 30 \text{ mg/kg}$	3,0 mg/kg
Arsenic (As)	EN 16711-2	$\leq 0,2 \text{ mg/kg}$	0,02 mg/kg
Barium (Ba)	EN 16711-2	$\leq 1000,0 \text{ mg/kg}$	$\leq 100,0 \text{ mg/kg}$
Lead (Pb)	EN 16711-2	$\leq 1,0 \text{ mg/kg}$	0,2 mg/kg
Cadmium (Cd)	EN 16711-2	$\leq 0,1 \text{ mg/kg}$	0,01 mg/kg
Total Chromium (Cr)	EN 16711-2	$\leq 2,0 \text{ mg/kg}$	0,1 mg/kg
Chromium Hexavalent (Cr VI)	rif. EN ISO 17075-2	$\leq 1,0 \text{ mg/kg}$	0,5 mg/kg
Cobalt (Co)	EN 16711-2	$\leq 4,0 \text{ mg/kg}$	0,1 mg/kg
Copper (Cu)	EN 16711-2	$\leq 50 \text{ mg/kg}$	2,5 mg/kg
Nickel (Ni)	EN 16711-2	$\leq 1,0 \text{ mg/kg}$	0,1 mg/kg
Mercury (Hg)	EN 16711-2	$\leq 0,02 \text{ mg/kg}$	0,01 mg/kg
Selenium (Se)	EN 16711-2	$\leq 500 \text{ mg/kg}$	50,0 mg/kg

LEATHER AND FUR			
Substance	Suitable Test Method Sample Preparation e Measurement	Limits Component, Materials in Finished Product	Reporting Limit Limits above which test results should be reported
Azo-amines and Arylamine Salts ⁽¹⁾	GB/T 19942 EN ISO 17234-1/2 (part 2 for 4 Aminoazobenzene)	≤ 30 mg/kg (each)	1 mg/kg
Free Aniline	GB/T 19942 EN ISO 17234-1 (without reductive cleavage)	< 20 mg/kg	< 1 mg/kg
Dyes, Navy Blue Component 1: CAS 118685-33-9 C39H23ClCrN7O12S2-Na Component 2: CAS Not Assigned C46H30CrN10O20S2-Na Dyes Carcinogenic ⁽²⁾ Dyes Disperse ⁽³⁾	EN ISO 16373-2/3 DIN 54231	NOT DETECTED	15 mg/kg 30 mg/kg
Quinoline (CAS Nr. 91-22-5)	DIN 54231	≤ 50 mg/kg	10 mg/kg
Formaldehyde (CAS Nr. 50-00-0)	ISO 17226-1/2 GB/T 19941.1/2	≤ 75 mg/kg	16 mg/kg
Chromium Hexavalent (ATTENTION for CALIFORNIA market perform also extractable tests ISO 17072-1 with limit 2,0 mg/kg)	ISO 10195 + ISO 17075-2 method A1 (all products except footwear, upholstery) ISO 10195 + ISO 17075-2 method A2 (footwear,	≤ 3 mg/kg	0,5 mg/kg

	upholstery) GB/T 38402 (cromatografic method)		
Chlorophenols - Pentachlorophenol (PCP) - Tetrachlorophenol (TeCP) - Trichlorophenol (TriCP) - Monochlorophenol (MCP) - Dichlorophenol (DiCP)	EN ISO 17070 GB/T 22808 DIN 50009	PCP e TeCP ≤ 0,5 mg/kg, TriCP, DiCP e MCP (sum) ≤ 0,5 mg/kg	0,05 mg/kg
Ortho-phenylphenol (OPP) (CAS Nr. 90-43-7)	EN ISO 13365-1/2 DIN 50009	750 mg/kg	1,0 mg/kg
Organotin Compounds ⁽⁶⁾	ISO TS 16179 Screening for the Total Tin content, if positive, proceed with the Organic Tin Compounds determination	≤ 0,5 mg/kg TBT, TPhT ≤ 1,0 mg/kg Others	0,1 mg/kg
Flame Retardants ⁽⁷⁾	ISO 17881-1/2 GB 24279.1/2 NOTE: Boron salts are determined as total boron content	≤ 5 mg/kg	1 mg/kg
Chlorinated Paraffins: Short-chain SCCP (CAS Nr. 85535-84-8) Medium-chain MCCP (CAS Nr. 85535-85-9)	ISO 18219-1 ISO 18219-2	Short-chain: ≤ 50 mg/kg Medium-chain: ≤ 100 mg/kg	30 mg/kg

Phthalates	ISO/TS 16181 CPSC-CH-C1001-09.4	500 mg/kg (Single substance) 1000 mg/kg (Sum)	50 mg/kg
Alkylphenols (APs) - Nonilphenols (NP) mixed isomers 84852-15-3, 25154-52-3, 104-40-5, 11066-49-2 - Octilphenols (OP) mixed isomers 140-66-9, 1806-26-4, 27193-28-8	EN ISO 21084	Somma $\leq$ 10 mg/kg	1 mg/kg
- Nonylphenol ethoxylates (NPEOs) 68412-54-4, 9016-45-9, 127087-87-0, 37205-87-1, 26027-38-3, 104-35-8, 20427-84-3 - Octylphenol ethoxylates (OPEOs) 9002-93-1, 68987-90-6, 9036-19-5, 51437-89-9; 51437-90-2	EN ISO 18218-1/2	Sum APs+APEOs $\leq$ 100 mg/kg	1 mg/kg
PFAs substances - Total Organic Fluorine	based on ASTM D7359-18 EN 17813:2023 (C-IC)	< 50 mg/kg	50 mg/kg
PFAS -Perfluorooctane Sulfonate (PFOS), its Salts and related substances	CEN/TS 15968 EN ISO 23702-1	$\leq$ 0,025 mg/kg (PFOS) PFOS related substances < 1 mg/kg (sum)	$\leq$ 0,025 mg/kg (PFOS) - PFOS related substances < 1 mg/kg (sum)

PFAS - Perfluorooctanoic Acid (PFOA) its salts and related substances		PFOA and its salts < 25 µg/kg (sum) PFOA related substances < 1000 µg/kg (sum)	- PFOA and its salts < 25 µg/kg (sum) PFOA related substances < 1000 µg/kg (sum)
PFAS - Perfluorohexane-1-sulphonic acid (PFHxS) its salts and related substances		PFHxS and its salts < 25 µg/kg (sum) PFHxS related substances < 1000 µg/kg (sum)	- PFHxS and its salts < 25 µg/kg (sum) PFHxS related substances < 1000 µg/kg (sum)
PFAS - PFCAs C ₉ -C ₁₄ its salts and related substances		C ₉ -C ₁₄ PFCAs and its salts < 25 µg/kg (sum) C ₉ -C ₁₄ PFCAs related substances < 260 µg/kg (sum)	- C ₉ -C ₁₄ PFCAs and its salts < 25 µg/kg (sum) C ₉ -C ₁₄ PFCAs related substances < 260 µg/kg (sum)
PFAS - other		Other < 1000 µg/kg	- Other < 1000 µg/kg
Total Lead (Pb)	EN ISO 17072-2 Lead in paint and surface coatings: CPSC-CH-E1003-09.1	≤ 90 mg/kg	1 mg/kg

Total Cadmium (Cd)	EN ISO 17072-2 Cadmium in paint and surface coatings: based on CPSC-CH-E1003-09.1	≤ 40 mg/kg	1 mg/kg
Total Mercury (Hg)	EN ISO 17072-2	< 0,5 mg/kg	< 0,5 mg/kg
Extractable Cadmium	EN ISO 17072-1	≤ 0,1 mg/kg	0,1 mg/kg
Extractable Lead	EN ISO 17072-1	≤ 1,0 mg/kg	0,1 mg/kg
Extractable Mercury	EN ISO 17072-1	≤ 0,02 mg/kg	0,1 mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs) (Applicable to coated materials only) ⁽⁹⁾	AfPS GS 2019 EN ISO 16190	≤ 1,0 mg/kg (single substance) ≤ 10,0 mg/kg (sum)	0,1 mg/kg
Dimethylfumarate (DMFu)	Ref. ISO 16186	≤ 0,1 mg/kg	≤ 0,01 mg/kg
Chlorinated Solvents ⁽¹³⁾	Extraction, HS-GCMS (45 min. a 120°C)	See Table	
Volatile Organic Compounds (VOCs) ⁽¹³⁾	Extraction, HS-GCMS (45 min. a 120°C)	See Table	
Other Solvents, Residual	EN 17131	See Table	
Pesticides and Herbicides, Agricultural ⁽⁸⁾	EPA 8081	≤ 1,0 mg/kg (sum)	≤ 0,05 mg/kg
Organic compounds of Mercury	Screening of Total Mercury content Ref. ISO 17072-2	≤ 1 mg/kg like Mercury	0,1 mg/kg
pH value	EN ISO 4045	Chrome tanned 3,5 - 5,5 (ΔpH ≤ 0,7) Other tanned 3,5 - 7,5 (ΔpH ≤ 0,7)	
Bisphenols ⁽¹⁴⁾	EN ISO 11936	BPA < 1 mg/kg BPS, BPF < 1 mg/kg SUM BPS + BPF + BPB < 100 mg/kg	0,1 mg/kg

Glutaraldehyde CAS: 111-30-8	Extraction with solvent + GC/MS	< 1000 mg/kg	10 mg/kg
Cyclosiloxanes (D4) 556-67-2 (D5) 541-02-6 (D6) 540-97-6	Extraction with solvent + GC/MS	< 1000 mg/kg	10 mg/kg
Dimethylacetamide [DMAc]	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
Dimethylformamide [DMFa]	ISO/TS 16189	< 200 mg/kg	10 mg/kg
Formamide	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
N-Methyl-2-pyrrolidon [NMP]	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
Vinylchloride	GB/T 4615	< 5 mg/kg	1 mg/kg
UV Absorbers / Stabilizers	ISO 24040 Extraction with THF, analysis GC/MS	< 1000 mg/kg	10 mg/kg

PLASTIC AND RUBBER			
Substance	Suitable Test Method Sample Preparation e Measurement	Limits Component, Materials in Finished Product	Reporting Limit Limits above which test results should be reported
Total Lead (Pb)	CPSC-CH-E-1002-08.3	≤ 100 mg/kg	1 mg/kg
Total Lead (Pb) (coating material)	CPSC CH E 1003-09.1	≤ 90 mg/kg	1 mg/kg
Total Mercury (Coating material) ⁽¹¹⁾	Microwave digestion + ICP-MS/OES	≤ 10mg/kg	1 mg/kg
Total Cadmium	EN 1122	≤ 40 mg/kg	1 mg/kg

Total Arsenic	Microwave digestion + ICP-MS/OES	< 100 mg/kg	1 mg/kg
Phthalates ⁽⁴⁾	CPSC-CH-C1001-09.4 ISO/TS 16181	500 mg/kg (single substance) 1000 mg/kg (sum)	50 mg/kg
PVC - Vinyl Chloride Monomer	GB/T 4615 EN ISO 6401	≤ 5 mg/kg	1 mg/kg
Styrene, free	Extraction with MeOH at 60°C and GC/MS determination	1 mg/kg	1 mg/kg
PVC - Volatile substances	GB 21550	≤ 20 g/m ²	1 g/m ²
Organotin Compounds ⁽⁶⁾	ISO/TS 16179 EN ISO 22744-1/2 Screening for the Total Tin content, if positive, proceed with the Organic Tin Compounds determination	≤ 0,5 mg/kg TBT, TPhT ≤ 1,0 mg/kg Others	0,1 mg/kg
Chlorinated Paraffins: Short-chain SCCP (CAS Nr. 85535-84-8) Medium-chain MCCP (CAS Nr. 85535-85-9)	Ref. EN ISO 22818 (SCCP / MCCP)	Short-chain: ≤ 50 mg/kg Medium-chain: ≤ 100 mg/kg	30 mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs) ⁽⁹⁾	AfPs GS 2019 EN ISO 16190	≤ 1,0 mg/kg (single substance) ≤ 10,0 mg/kg (sum)	0,1 mg/kg
Acetophenone (CAS: 98-86-2) 2-Phenil-2-Propanol (CAS: 617-94-7)	Extraction with Acetone or MeOH at 60°C in ultrasound bath Determination in GC/MS	≤ 50 mg/kg (on EVA)	25 mg/kg

N-Nitrosamine ⁽¹⁵⁾	GB/T 24153 EN ISO 19577	0,5 mg/kg each	0,5 mg/kg
Bisphenols ⁽¹⁴⁾	Extraction with THF at 60°C and determination in LC/MS	BPA < 1 mg/kg Other Bisphenols SUM < 1000 mg/kg	0,1 mg/kg
UV Adsorber / Stabilizers ⁽¹⁶⁾	ISO 24040 extractione in THF, analysis GC/MS	1000 mg/kg each	100 mg/kg
PFAs substances - Total Organic Fluorine	based on ASTM D7359-18 EN 17813:2023 (C-IC)	< 50 mg/kg	50 mg/kg
Dimethylacetamide [DMAc]	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
Dimethylformamide [DMFa]	ISO/TS 16189	< 200 mg/kg	10 mg/kg
Formamide	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
N-Methyl-2-pyrrolidon [NMP]	Extraction with solvent + GC/MS	< 500 mg/kg	10 mg/kg
Vinylchloride	GB/T 4615	< 5 mg/kg	1 mg/kg

METALS			
Substance	Suitable Test Method Sample Preparation e Measurement	Limits Component, Materials in Finished Product	Reporting Limit Limits above which test results should be reported
Total Lead (Pb)	CPSC CH E 1001-08.3 ASTM F2923 (Total)	≤ 90 mg/kg	1 mg/kg
Total Lead (Pb) (coating material)	CPSC CH E 1003-09.1 ASTM F2923 (Total)	≤ 90 mg/kg	1 mg/kg
Total Cadmium	ref. GB/T 28021 ASTM F2923 (Total)	≤ 40 mg/kg	1 mg/kg
Total Mercury (Coating material)	GB/T 21198-6, GB/T 28021	≤ 1000 mg/kg	1 mg/kg
Mercury (Hg)	ISO 8124 (extractable on paint and coatings)	≤ 60 mg/kg	5 mg/kg
Total Arsenic	GB/T 21198-6, GB/T 28021	≤ 1000 mg/kg	1 mg/kg
Chromium Hexavalent (Cr VI)	GB/T 28019	≤ 1000 mg/kg	1 mg/kg
Chromium (Cr)	ISO 8124 (extractable on paint and coatings)	≤ 60 mg/kg	5 mg/kg
Antimonium (Sb)	ISO 8124 (extractable on paint and coatings)	≤ 60 mg/kg	5 mg/kg
Arsenic (As)	ISO 8124 (extractable on paint and coatings)	≤ 25 mg/kg	5 mg/kg
Barium (Ba)	ISO 8124 (extractable on paint and coatings)	≤ 1000 mg/kg	100 mg/kg
Selenium (Se)	ISO 8124 (extractable on paint and coatings)	≤ 500 mg/kg	50 mg/kg

Nickel release (weekly)	Screening Nickel with XRF EN 1811 (not coated, not paint, not plated) EN 12472+ EN 1811 (coated, painted, plated) GB/T 19719	piercing $\leq 0.2 \mu\text{g}/\text{cm}^2$ for week direct contact with skin $\leq 0.5 \mu\text{g}/\text{cm}^2$ for week	$0.1 \mu\text{g}/\text{cm}^2$
PFAs substances - Total Organic Fluorine	based on ASTM D7359-18 EN 17813:2023 (C-IC)	$< 50 \text{ mg/kg}$	50 mg/kg

GLASS, CRYSTALS, NATURAL MATERIALS			
Substance	Suitable Test Method Sample Preparation e Measurement	Limits Component, Materials in Finished Product	Reporting Limit Limits above which test results should be reported
Lead on paint (Coated materials)	CPSC CH E 1003-09.1	$\leq 90 \text{ mg/kg}$	1 mg/kg
Cadmium on paint (Coated materials)	CPSC CH E 1003-09.1	$\leq 100 \text{ mg/kg}$	1 mg/kg
Total Lead	CPSC CH E 1001-08.3	$\leq 100 \text{ mg/kg}$	1 mg/kg
Total Cadmium	Ref. CPSC-CH-E-1002-08.3	$\leq 1000 \text{ mg/kg}$	1 mg/kg
Total Mercury (Coated materials)	Microwave digestion + ICP- MS/OES	$\leq 10 \text{ mg/kg}$	1 mg/kg
PFAs substances - Total Organic Fluorine	based on ASTM D7359-18 EN 17813:2023 (C-IC)	$< 50 \text{ mg/kg}$	50 mg/kg

PACKAGING MATERIALS			
Substance	Suitable Test Method Sample Preparation e Measurement	Limits Component, Materials in Finished Product	Reporting Limit Limits above which test results should be reported
PACKAGING <i>(all materials used) Acid digestion of each single component, and ICP-OES/MS analyses.</i> <i>The sum of the total content of heavy metals: lead, cadmium, mercury and hexavalent chromium must not exceed 100 mg/kg</i>			
Dimethylfumarate (DMFu) CAS Nr. 624-49-7	Ref. ISO 16186	≤ 0,1 mg/kg	0,01 mg/kg

ALKYLPHENOL (AP)	
Nonylphenol (NP), mixed isomers	104-40-5
	11066-49-2
	25154-52-3
	84852-15-3
	90481-04-2
	1173019-62-10 + Various
Octylphenol (OP), mixed isomers	140-66-9
	1806-26-4
	27193-28-8 + Various

ALKYLPHENOETHOXYLATES (APEOS)	
Nonylphenoethoxylates (NPEOs), mixed isomers	9016-45-9
	26027-38-3
	37205-87-1
	68412-54-4
	127087-87-0 + Various
Octylphenoethoxylates (OPEOs), mixed isomers	9002-93-1
	9036-19-5
	68987-90-6 + Various

List 1 - AZO DYES	
4-Aminobiphenyl	92-67-1
Benzidine	92-87-5
4-Chlor-o-toluidine (4-chloro-o-toluidinium chloride)	95-69-2 (3165-93-3)
2-Naphthylamine (2-Naphthylammoniumacetate)	91-59-8 (553-00-4)
o-Aminoazotoluene	97-56-3
2-Amino-4-nitrotoluene	99-55-8
p-Chloraniline	106-47-8
2,4-Diaminoanisole (4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate)	615-05-4 (39156-41-7)
4,4'-Diaminodiphenylmethane	101-77-9
3,3'-Dichlorobenzidine	91-94-1
3,3'-Dimethoxybenzidine	119-90-4
3,3'-Dimethylbenzidine	119-93-7
3,3-dimethyl-4,4'-diaminodiphenylmethane	838-88-0
p-Cresidine	120-71-8
4,4'-methylen-bis(2-chloraniline)	101-14-4
4,4-Oxydianiline	101-80-4
4,4'-Thiodianiline	139-65-1
2,4-Toluylendiamine	95-80-7
o-Toluidine	95-53-4
2,4,5-Trimethylaniline (2,4,5-trimethylaniline hydrochloride)	137-17-7 (21436-97-5)
2,4 Xylidine	95-68-1

2,6 Xylidine	87-62-7
2-Methoxyaniline (= o-Anisidine)	90-04-0
4-Aminoazobenzene	60-09-3
Free Aniline	62-53-3

List 5 - CHLORORGANIC CARRIERS (Carriers Halogenated)	
Monochlorotoluene, all isomers	25168-05-2
2-Chlorotoluene	95-49-8
3-Chlorotoluene	108-41-8
4-Chlorotoluene	106-43-4
a-Chlorotoluene	100-44-7
Dichlorotoluene, all 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
2,3,6-Trichlorotoluene	2077-46-5
2,4,5-Trichlorotoluene	6639-30-1
a,a,a-Trichlorotoluene	98-07-7
2,3,4,5-Tetrachlorotoluene	76057-12-0
2,3,4,6-Tetrachlorotoluene	875-40-1
2,3,5,6-Tetrachlorotoluene	1006-31-1
a,a,a,2-Tetrachlorotoluene	2136-89-2
a,a,2,6-Tetrachlorotoluene	81-19-6
a,a,a,4-Tetrachlorotoluene	5216-25-1
Pentachlorotoluene	877-11-2
Dichlorobenzenes, all Isomers	25321-22-6
1,2-Dichlorobenzene	95-50-1
1,3-Dichlorobenzene	541-73-1
1,4-Dichlorobenzene	106-46-7
Trichlorobenzene, all 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
1,2,3,4-Tetrachlorobenzene	634-66-2
1,2,3,5-Tetrachlorobenzene	634-90-2
1,2,4,5-Tetrachlorobenzene	95-94-3
Pentachlorobenzene	608-93-5
Hexachlorobenzene	118-74-1

CHLOROPHENOLS	
2-Chlorophenol	95-57-8

3-Chlorophenol	108-43-0
4-Chlorophenol	106-48-9
2,3-Dichlorophenol	576-24-9
2,4-Dichlorophenol	120-83-2
2,5-Dichlorophenol	583-78-8
2,6-Dichlorophenol	87-65-0
3,4-Dichlorophenol	95-77-2
3,5-Dichlorophenol	591-35-5
Trichlorophenols, mixed isomers	25167-82-2
2,3,4-Trichlorophenol	15950-66-0
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
Tetrachlorophenols, mixed isomers	25167-83-3
2,3,4,5-Tetrachlorophenol (TeCP)	4901-51-3
2,3,4,6-Tetrachlorophenol (TeCP)	58-90-2
2,3,5,6-Tetrachlorophenol (TeCP)	935-95-5
Pentachlorophenol (PCP)	87-86-5
OrthoPhenilPhenol (OPP)	90-43-7

List 3 - DYESTUFFS, ALLERGENIC	
Disperse Blue 1	2475-45-8
Disperse Blue 3	2475-46-9
Disperse Blue 7	3179-90-6
Disperse Blue 26	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	2581-69-3
Disperse Orange 3	730-40-5
Disperse Orange 37/59/76	12223-33-5, 13301-61-6
Disperse orange 149	85136-74-9
Disperse Red 1	2872-52-8
Disperse Red 11	2872-48-2
Disperse Red 17	3179-89-3
Disperse Yellow 1	119-15-3
Disperse Yellow 3	2832-40-8
Disperse Yellow 9	6373-73-5
Disperse Yellow 23	6250-23-3

Disperse Yellow 39	12236-29-2
Disperse Yellow 49	54824-37-2, 6858-49-7

List 2 - DYESTUFFS, CARCINOGENIC

Acid Red 26	3761-53-3
Acid Red 114	6459-94-5
Acid Violet 49	1694-09-3
Basic Blue 26	2580-56-5
Basic Green 4	569-64-2, 2437-29-8 18015-76-4, 10309-95-2
Basic Red 9	569-61-9
Basic Violet 3	548-62-9
Basic Violet 14	632-99-5
Direct Black 38	1937-37-7
Direct Blue 6	2602-46-2
Direct Brown 95	16071-86-6
Direct Red 28	573-58-0
Disperse Blue 1	2475-45-8
Disperse Blue 3	2475-46-9
Disperse Yellow 3	2832-40-8
Disperse Yellow 23	6250-23-3
Disperse orange 11	82-28-0
Disperse Orange 149	85136-74-9
Solvent Yellow 2	60-11-7

List 7 FLAME RETARDANT

Tris(2,3,-dibromopropyl) phosphate (TRIS)	<u>126-72-7</u>
Tris((1-aziridinyl)phosphine oxide) (TEPA)	<u>545-55-1</u>
Tetrabromodiphenyl ether (tetraBDE)	40088-47-9, 5436-43-1, + <u>various</u>
Pentabromodiphenyl ether (PentaBDE)	<u>32534-81-9</u> , 60348-60-9, 189084-64-8
Hexabromodiphenyl ether (hexaBDE)	36483-60-0, + <u>various</u>
Heptabromodiphenyl ether (heptaBDE)	68928-80-3 + <u>Various</u>
Octabromodiphenyl ether (OctaBDE)	<u>32536-52-0</u>
NonaBromodiphenyl ether (NonaBDE)	63936-56-1, + various
Decabromodiphenyl ether (DecaBDE)	<u>1163-19-5</u>
Others Polybrominated diphenyl ether (PBDEs)	Various
Bis(2,3-dibromopropylether) of tetrabromobisphenol (BDBPT)	21850-44-2
Tetrabromobisphenol A (TBBP A)	79-94-7
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0
Polybromobiphenyls (PBB)	36355-01-8; <u>59536-65-1</u> + various
Hexabromocyclododecane (HBCDD)	<u>3194-55-6</u> , <u>25637-99-4</u> , <u>134237-50-6</u> , <u>134237-51-7</u> , <u>134237-52-8</u>

Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9
Diboron Trioxide(Triossido di Boro)	1303-86-2
Tetraboron disodium heptaoxide, hydrate	12267-73-1
Tri-o-cresyl phosphate (ToCP)	78-30-8
Trixylylphosphate (TXP)	25155-23-1
Triphenyl phosphate (TPhP)	115-86-6
Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5
PolyBromurateDiphenylEther (PBDEs)	vari/various
1.2-Ethylhexyl 2,3,4,5-Tetrabromobenzoate (TBB)	183658-27-7
bis(2-ethylhexyl) 3,4,5,6-tetrabromophthalate (TBPH)	26040-51-7
2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	36483-57-5
2,3-dibromo-1-propanol (2,3-DBPA)	1522-92-5; 96-13-9
Trimethyl phosphate	512-56-1
Orthoboric acid, sodium salt	13840-56-7
Decabromodiphenyl ethane (DBDPE)	84852-53-9
Dibromobiphenyls (DiBB)	Various
Tribromobiphenyls (TriBB)	Various
Tetrabromobiphenyls (TetraBB)	Various
Pentabromobiphenyls (PentaBB)	Various
Heptabromobiphenyls (HeptaBB)	Various
Octabromobiphenyls (OctaBB)	Various
Nonabromobiphenyls (NonaBB)	Various
Tris(2-chloroethyl)phosphate (TCEP)	<u>115-96-8</u>
Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)	<u>13674-87-8</u>

List 6 ORGANOTIN COMPOUNDS

Dibutyltin [DBT]	Various
Dimethyltin [DMT]	Various
Dioctyltin [DOT]	Various
Diphenyltin [DPhT]	Various
Monobutyltin [MBT]	Various
MonomethylTin [MMT]	Various
Monooctyltin [MOT]	Various
MonophenylTin [MPhT]	Various
Tributyltin [TBT]	Various
Tricyclohexyltin (TCyHT)	Various
Trimethyltin (TMT)	Various
Trioctyltin (TOT)	Various
Triphenyltin [TPhT]	Various

Tripopyltin [TPT]

Various

List 15 N- NITROSAMINE

N-Nitrosodimethylamine	62-75-9
N-Nitrosodiethylamine	55-18-5
N-Nitrosodipropylamine	621-64-7
N-Nitrosodibutylamine	924-16-3
N-Nitrosopiperidine	100-75-4
N-Nitrosopyrrolidine	930-55-2
N-Nitrosomorpholine	59-89-2
N-Nitroso-N-methylaniline	614-00-6
N-Nitroso-N-ethylaniline	612-64-6

List 12 PERFLUORINATED AND POLYFLUORINATED CHMICALS (PFCs)

PFOS and related substances.	PFOS and related substances. PFOS and related substances are defined by Reg. 2019/1021 (EU) as C ₈ F ₁₇ SO ₂ X, (X =: OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers)
<u>Substances (the following list is not exhaustive please refer to definition above)</u>	<u>CAS-Nr.</u>
Perfluorooctanesulfonic acid (PFOS)	1763-23-1
Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
Didecylidimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2
N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2
2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7
Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7
Perfluorooctane sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonic acid (PFOS)	1763-23-1

Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8

PFOA its salts and related substances.	PFOA its salts and related substances. PFOA its salts and related substances are defined by Reg. 2019/1021 (EU) as perfluorooctanoic acid, including any of its branched isomers, its salts, PFOA-related compounds which, for the purposes of the Convention, are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C₇F₁₅)-C as one of the structural elements. The following compounds are not included as PFOA-related compounds: - C₈F₁₇-X, where X = F, Cl, Br; - fluoropolymers that are covered by CF₃[CF₂]_n-R', where R'=any group, n> 16; - perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥ 8 fluorinated carbons; - perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 fluorinated carbons; - perfluorooctane sulfonic acid and its derivatives (PFOS).
<u>Substances (the following list is not exhaustive please refer to definition above)</u>	<u>CAS-Nr.</u>
Perfluorooctanoic acid (PFOA)	335-67-1
<u>PFOA Salts (examples)</u>	
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
<u>PFOA related substances (examples)</u>	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Methyl perfluorooctanoate (Me-PFOA)	376-27-2
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9

1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9
2H,2H-Perfluorodecanoic acid (H2PFDA)	27854-31-5

PFHxS and its salts (examples)	
Perfluorohexane Sulfonic acid (PFHxS)	355-46-4
Perfluorohexane Sulfonic acid, potassium salt (PFHxS-K)	3871-99-6
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9
PFHxS and its salts (examples) (...Cont)	
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH ₄)	68259-08-5
Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na)	82382-12-5
PFHxS related Substances (examples)	
N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	68259-15-4
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1

Long Chain PFAS	Long Chain PFAS its salts and related substances are defined by Reg. 2006/1907 EU – REACH annex XVII entry 68, as: - Linear and branched perfluorocarboxylic acids of the formula $C_nF_{2n+1}-C(=O)OH$ where $n = 8, 9, 10, 11, 12, \text{ or } 13$ (C₉-C₁₄ PFCAs), including their salts, and any combinations thereof< - Any C₉-C₁₄ PFCA-related substance having a perfluoro group with the formula $C_nF_{2n+1}-$ directly attached to another carbon atom, where $n = 8, 9, 10, 11, 12, \text{ or } 13$, including their salts and any combinations thereof; - Any C₉-C₁₄ PFCA-related substance having a perfluoro group with the formula $C_nF_{2n+1}-$ that it is not directly attached to another carbon atom, where $n = 9, 10, 11, 12, 13 \text{ or } 14$ as one of the structural elements, including their salts and any combinations thereof The following substances are excluded from this designation: '- $C_nF_{2n+1}-X$, where $X = F, Cl, \text{ or } Br$ where $n = 9, 10, 11, 12, 13 \text{ or } 14$, including any combinations thereof, - $C_nF_{2n+1}-C(=O)OX'$ where $n > 13$ and $X' = \text{any group}$, including salts					
	C₉ – C₁₄ PFCAs and Their Salts (examples) <table> <tr> <th>Substances (the following list is not exhaustive please refer to definition above)</th><th>CAS-Nr.</th></tr> <tr> <td>Perfluorononanoic Acid (PFNA, C9-PFCA)</td><td>375-95-1</td></tr> <tr> <td>Perfluorodecanoic Acid (PFDA, C10-PFCA)</td><td>335-76-2</td></tr> </table>	Substances (the following list is not exhaustive please refer to definition above)	CAS-Nr.	Perfluorononanoic Acid (PFNA, C9-PFCA)	375-95-1	Perfluorodecanoic Acid (PFDA, C10-PFCA)
Substances (the following list is not exhaustive please refer to definition above)	CAS-Nr.					
Perfluorononanoic Acid (PFNA, C9-PFCA)	375-95-1					
Perfluorodecanoic Acid (PFDA, C10-PFCA)	335-76-2					

Perfluoroundecanoic Acid (PFUnA, C11-PFCA)	2058-94-8
Perfluorododecanoic Acid (PFDoA, C12-PFCA)	307-55-1
Perfluorotridecanoic Acid (PFTrDA, C13-PFCA)	72629-94-8
Perfluorotetradecanoic Acid (PFTeDA, C14-PFCA)	376-06-7
Perfluoro-3-7-dimethyloctanecarboxylate (PF-3,7-DMOA)	172155-07-6
C₉ – C₁₄ PFCA-related Substances	
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9
C₉ – C₁₄ PFCA-related Substances (... Cont.)	
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1
2H,2H,3H,3H-Perufluoroundecanoic acid (H ₄ PFUnA)	34598-33-9
Perfluorocylethanol 8:2 (8:2 FTOH)	678-39-7
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5
1H,1H,2H,2H-Perfluorododecanesulphonic acid (10:2 FTS)	120226-60-0
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2

Other (examples)	
Perfluorohexanoic Acid (PFHxA, C6-PFCA)	307-24-4
Various	

List 8 PESTICIDES	
2,4,5-T	93-76-5
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
DEF	78-48-8
DDD	53-19-0, 72-54-8
DDE	3424-82-6, 72-55-9
DDT	50-29-3, 789-02-6
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
Endosulfan	115-29-7; 959-98-8; 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
Hexachlorcyclohexane	608-73-1; 319-84-6; 319-85-7; 319-86-8
Isodrine	465-73-6
Kelevan	4234-79-1
Lindane	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
Pertane	72-56-0
Phosdrin/Mevinphos	7786-34-7
Profenophos	41198-08-7
Propethamphos	31218-83-4
Quinalphos	13593-03-8

Strobane	8001-50-1
Telodrine	297-78-9
Toxaphen	8001-35-2
Trifluralin	1582-09-8

List 4 PHTHALATES	
Benzyl butyl phthalate (BBP)	85-68-7
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Diisobutyl phthalate (DIBP)	84-69-5
Dibutyl phthalate (DBP)	84-74-2
Di-isononyl phthalate (DINP)	28553-12-0 ; 68515-48-0
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUF)	68515-42-4
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8
Di-isodecyl phthalate (DIDP)	26761-40-0 ; 68515-49-1
Dimethyl phthalate (DMP)	131-11-3
Dihexyl phthalate (DnHP)	84-75-3
Dioctyl phthalate (DNOP)	117-84-0
Diisopentyl phthalate (DIPP)	605-50-5
Dipentyl phthalate (DnPP)	131-18-0
Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7
Dietil ftalato (DEP)	84-66-2
Di-cyclohexylphthalates (DCHP)	84-61-7
1,2-Benzenedicarboxylic acid dihexyl ester, branched and linear (DHxP)	68515-50-4
D-n-propyl phthalate (DPRP)	131-16-8
Dinonil phthalate (DNP)	84-76-4
Di-isohexyl phthalate (DIHxP)	71850-09-4
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with 0.3% of dihexyl phthalate	68648-93-1 / 68515-51-5
N-pentyl-isopentylphthalate (NPIPP)	776297-69-9
Diisooctyl phthalate (DIOP)	27554-26-3
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHxP)	68515-50-4
Dicyclohexyl phthalate (DCHP)	84-61-7
Diethyl phthalate (DEP)	84-66-2
Dinonyl phthalate (DNP)	84-76-4
Dipropyl phthalate (DPrP)	131-16-8

List 9 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)	
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo[a]anthracene	56-55-3
Benzo[a]pyrene (BaP)	50-32-8
Benzo[b]fluoranthene	205-99-2
Benzo[e]pyrene	192-97-2
Benzo[ghi]perylene	191-24-2
Benzo[j]fluoranthene	205-82-3
Benzo[k]fluoranthene	207-08-9
Chrysene	218-01-9
Dibenz[a,h]anthracene	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3-cd]pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0

List 14 BISPHENOLS	
Bisfenol A (BPA)	80-05-7
Bisfenol S (BPS)	80-09-1
Bisfenol B (BPB)	77-40-7
Bisfenol F (BPF)	620-92-8

List 16 UV-ABSORBERS / STABILIZERS	
UV 320	3846-71-7
UV 327	3864-99-1
UV 328	25973-55-1
UV 350	36437-37-3
Drometrizole (informative only)	2440-22-4