

**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.



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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 Fibres	Synthetic Fibres	Natural & Synthetic Blends	Coated fabrics (incl. fake Leather)	Natural Leather	Composite Material natural and synthetic	Natural materials different from the previous	Metals	Other: Porcelain, Ceramic, Glass, Crystal, Etc.	Feathers e Down	EVA	PU Foam	All other PU & TPU	Rubber (Excludes Latex and Silicon Rubbers)	Polycarbonate	ABS	PVC	All other Foams, Plastic & Polymers	Coatings & Prints	Glue
Acetophenone and 2-Phenyl-2-Propanol											2									
Acidic and Alkaline Substances (pH)	1	1	1	1	1															
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1
Azo-amines and Aryl Amine salts	1A	1A	1A	1A	1A	1A	1A			1A									1A	
Bisphenols		2	2		2	2					2	2	2	2	1	2	2	2		
Chlorinated Paraffins				2	1	1													2	
Chlorophenols	2	2	2		2	2														
Chlorinated Benzenes and Toluenes (including alfa-chloro toluenes)		2	2	2																
Dimethylfumarate (DMFu)					2	2														
Dyes, Forbidden and Disperse	1A	1A	1A	1A	1A	1A				1A									1A	
Dyes, Navy Blue	2A		2A		2A	2A														
Flame Retardants	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B

Substance	Natural Fibres	Synthetic Fibres	Natural & Synthetic Blends	Fake Leather	Natural Leather	Composite Material natural and synthetic	Natural materials different from the previous	Metals	Other: Porcelain, Ceramic, Glass, Crystal, Etc.	Feathers e Down	EVA	PU Foam	All other PU & TPU	Rubber (Excludes Latex and Silicon Rubbers)	Polycarbonate	ABS	PVC	All other Foams, Plastic & Polymers	Coatings & Prints	Glue
Formaldehyde	1	1	1	1	1	1	1							2					1	1
Chromium VI	2D	2E			1	1														
Heavy Metals, Extractable	1	1	1	1	1	1		2F			2	2	1	2	2	2	1	2	1	
Nickel Release								1												
Heavy Metals, Total	2G		2G	1	2	2		1	1H		1	1	1	1	1	1	1	1	1	2
Monomers: Styrene & Vinyl Chloride				1J		1J								2K		2	1		1J	
N-Nitrosamines														2						
Organotin Compounds	2	2	2	1	2	1						1	1	1			1	1	1	1
Ortho-phenylphenol (OPP)	2	2	2	2	2	2														
Per- and Polyfluoroalkyl Substances (PFAS)	1L	1L	1L	1L	1	1L	1L	1L	1L	1L	1L	1L	1L	1L	1L	1L	1L	1L	1L	1L
Pesticides	2		2																	
Phthalates				1		1					1	1	1	1	2	2	1	1	1	1
Polycyclic Aromatic Hydrocarbons (PAHs)				2		2					1M	1M	1M	1			1M	1M	1M	1M

Substance	Natural Fibres	Synthetic Fibres	Natural & Synthetic Blends	Fake Leather	Natural Leather	Composite Material natural and synthetic	Natural materials different from the previous	Metals	Other: Porcelain, Ceramic, Glass, Crystal, Etc.	Feathers e Down	EVA	PU Foam	All other PU & TPU	Rubber (Excludes Latex and Silicon Rubbers)	Polycarbonate	ABS	PVC	All other Foams, Plastic & Polymers	Coatings & Prints	Glue		
Quinoline	2A	2A	2A	2A	2A	2A																
Residuals, DMFa				1		1						1	1						1N	1N		
Residuals, DMAC and NMP				1		1						2	2					2	2	2		
Residuals, Formamide											2								2			
UV Absorber											2	2	2	2	2	2	2	2				
Volatile Organic Compounds (VOCs)				2		2					2	2	2	2	2	2	2	2	2	1		
Legenda:	A Lev. 1: for dyed/colored materials (non-white) only.						G Lev. 2: for plant-based fibers only; N/A for animal-based fibers.						1	CRITICAL								
	B Lev. 2: only if Flame Retardant use or contamination is suspected						H Lev. 1: for Cadmium and Lead only; Crystal is exempt for Lead						2	SUGGESTED								
	C Lev. 1: for Wood, Paper, and Straw materials only						J Lev. 1: for PVC materials only. Otherwise, Level 2							LOW RISK								
	D Lev. 2: for Wool materials only						K Lev. 2: for Styrene/Butadiene Rubbers (SBRs) only															
	E: Lev. 2: if extractable Chrome above 1 ppm only						L Lev. 1: if PFAS use or contamination is suspected.															
	F: Copper is exempt from restriction limits in Metal parts						M Lev. 1: if Rubber or black Polymeric materials, otherwise Level 2															
							N Lev. 1: for PU and PVC- based materials only.															

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
Dyes, Navy Blue (CAS Nr. 118685-33-9) Index Nr. 611-070-00-02 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 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)	UNI 11057 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)	UNI 11057 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 in case of positivity to alpha-chlorotoluenes, carry out the test with the GC injector at 100°C or with the HS or LC method	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 retardant)	≤ 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	≤ 50 mg/kg	30 mg/kg
Phthalates	CPSC-CH-C1001-09.3, 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	≤ 1,0 mg/kg (sum)	0,05 mg/kg

<p>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</p>	<p>EN ISO 21084</p>	<p>Somma ≤ 10 mg/kg</p>	<p>1 mg/kg</p>
<p>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</p>	<p>EN ISO 18254-1</p>	<p>Somma APs+APEOs ≤ 100 mg/kg</p>	<p>1 mg/kg</p>
<p>PFAs substances - Total Organic Fluorine</p>	<p>EN 14582 or ASTM D7359</p>	<p>50 mg/kg</p>	<p>50 mg/kg</p>
<p>PFAs substances⁽¹²⁾ - Perfluorooctane Sulfonate (PFOS) and its salts and related substances Perfluorooctanoic Acid (PFOA) and its salts and related substances PFCAs C9-C14 and its salts and related substances</p>	<p>CEN/TS 15968 EN ISO 23702-1</p>	<p>IF TOTAL ORGANIC FLUORINE POSITIVE Carry out PFOS/PFOA/PFCAS C9-C14 test < 1,0 µg/m² (PFOS) , PFOA and its salts < 25 µg/kg (sum) PFOA related substances < 1000 µg/kg (sum) PFHxS and its salts < 25 µg/kg (sum) PFHxS related substances < 1000 µg/kg (sum) C9-C14 PFCAs its salts < 25 µg/kg (sum) C9-C14 PFCAs related substances < 260 µg/kg (sum) Other < 1000 µg/kg</p>	<ul style="list-style-type: none"> - 1µg/m²(PFOS) - 25 µg/kg (PFOA, PFHxS, C9-C14- PFCAs and its salts and) - 1000 µg/kg PFOA, PFHxS related substances and other PFC) - 260 µg/kg C9-C14-PFCAs related substances
<p>Total Lead (Pb)</p>	<p>EN 16711-1 CPSC-CH-E1002-08.3 Lead in paint and surface coatings: CPSC-CH-E1003-09.1</p>	<p>≤ 90 mg/kg</p>	<p>1 mg/kg</p>

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
Polycyclic Aromatic Hydrocarbons (PAHs) (Applicable to synthetic fibers and coated materials only)⁽⁹⁾	AfPS GS 2019	≤ 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 (45 min. at 120°C)	See Table	
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	
Bisphenols⁽¹⁴⁾	Extraction with THF at 60°C and determination with LC/MS	1 mg/kg	0,1 mg/kg
EXTRACTABLE HEAVY METALS			
Antimony (Sb)	EN 16711-2	≤ 30 mg/kg	3,0 mg/kg
Arsenic (As)	EN 16711-2	≤ 0,2 mg/kg	0,02 mg/kg
Barium (Ba)	EN 16711-2	≤ 1000,0 mg/kg	≤ 100,0 mg/kg
Lead (Pb)	EN 16711-2	≤ 1,0 mg/kg	0,2 mg/kg
Cadmium (Cd)	EN 16711-2	≤ 0,1 mg/kg	0,01 mg/kg
Total Chromium (Cr)	EN 16711-2	≤ 2,0 mg/kg	0,1 mg/kg
Chromium Hexavalent (Cr VI)	rif. EN ISO 17075	≤ 1,0 mg/kg	0,5 mg/kg

Cobalt (Co)	EN 16711-2	≤ 4,0 mg/kg	0,1 mg/kg
Copper (Cu)	EN 16711-2	≤ 50 mg/kg	2,5 mg/kg
Nickel (Ni)	EN 16711-2	≤ 1,0 mg/kg	0,1 mg/kg
Mercury (Hg)	EN 16711-2	≤ 0,02 mg/kg	0,01 mg/kg
Selenium (Se)	EN 16711-2	≤ 500 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
Dyes, Navy Blue (CAS Nr. 118685-33-9) Index Nr. 611-070-00-02 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 19941 EN ISO 17226-1/-2	≤ 75 mg/kg	16 mg/kg

<p>Chromium Hexavalent (ATTENTION for CALIFORNIA market perform also extractable tests ISO 17072-1 with limit 2,0 mg/kg)</p>	<p>EN ISO 17075-1 (colorimetric)/2 (cromatographic) GB/T 22807 (colorimetric method) GB/T 38402 (cromatografic method)</p>	<p style="text-align: center;">≤ 3 mg/kg</p>	<p style="text-align: center;">0,5 mg/kg</p>
<p>Chlorophenols - Pentachlorophenol (PCP) - Tetrachlorophenol (TeCP) - Trichlorophenol (TriCP) - Monochlorophenol (MCP) - Dichlorophenol (DiCP)</p>	<p>EN ISO 17070 GB/T 22808 DIN 50009</p>	<p style="text-align: center;">PCP e TeCP $\leq 0,5$ mg/kg, TriCP, DiCP e MCP (sum) $\leq 0,5$ mg/kg</p>	<p style="text-align: center;">0,05 mg/kg</p>
<p>Ortho-phenylphenol (OPP) (CAS Nr. 90-43-7)</p>	<p>ISO 13365 DIN 50009</p>	<p style="text-align: center;">750 mg/kg</p>	<p style="text-align: center;">1,0 mg/kg</p>
<p>Organotin Compounds ⁽⁶⁾</p>	<p>ISO TS 16179 Screening for the Total Tin content, if positive, proceed with the Organic Tin Compounds determination</p>	<p style="text-align: center;">$\leq 0,5$ mg/kg TBT, TPhT $\leq 1,0$ mg/kg Others</p>	<p style="text-align: center;">0,1 mg/kg</p>
<p>Flame Retardants ⁽⁷⁾</p>	<p>EN ISO 17881-1 (brominated flame retardants) EN ISO 1788-2 (phosphorated flame retardant)</p>	<p style="text-align: center;">≤ 5 mg/kg</p>	<p style="text-align: center;">1 mg/kg</p>
<p>Chlorinated Paraffins: Short-chain SCCP (CAS Nr. 85535-84-8) Medium-chain MCCP (CAS Nr. 85535-85-9)</p>	<p>ISO 18219-1 ISO 18219-2</p>	<p style="text-align: center;">≤ 50 mg/kg</p>	<p style="text-align: center;">30 mg/kg</p>

Phthalates	CPSC-CH-C1001-09.4 GC/MS,	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 ≤ 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	Extraction with organic solvents ISO 18218-1	Sum APs+APEOs ≤ 100 mg/kg	1 mg/kg
PFAs substances - Total Organic Fluorine	EN 14582 or ASTM D7359	50 mg/kg	50 mg/kg
PFAs substances⁽¹²⁾ - Perfluorooctane Sulfonate (PFOS) and its salts and related substances Perfluorooctanoic Acid (PFOA) and its salts and related substances PFCAs C9-C14 and its salts and related substances	CEN/TS 15968 EN ISO 23702-1	IF TOTAL ORGANIC FLUORINE POSITIVE Carry out PFOS/PFOA/PFCAS C9-C14 test < 1,0 µg/m ² (PFOS) , PFOA and its salts < 25 µg/kg (sum) PFOA related substances < 1000 µg/kg (sum) PFHxS and its salts < 25 µg/kg (sum) PFHxS related substances < 1000 µg/kg (sum) C9-C14 PFCAs its salts < 25 µg/kg (sum) C9-C14 PFCAs related substances < 260 µg/kg (sum) Other < 1000 µg/kg	- 1µg/m ² (PFOS) - 25 µg/kg (PFOA, PFHxS, C9-C14- PFCAs and its salts and) - 1000 µg/kg PFOA, PFHxS related substances and other PFC) - 260 µg/kg C9-C14-PFCAs related substances
Total Lead (Pb)	EN ISO 17072-2 Lead in paint and surface	≤ 90 mg/kg	1 mg/kg

	coatings: CPSC-CH-E1003-09.1		
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
Extractable Cadmium	EN ISO 17072-1	≤ 0,1 mg/kg	0,1 mg/kg
Extraxtable 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	≤ 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	3.2÷7.5 ΔPh <0.7	
Bisphenols (14)	Estrazione con THF a 60°C e analisi in LC/MS	1 mg/kg	0,1 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)	ref. CPSC-CH-E1002-08.3	≤ 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
Phthalates ⁽⁴⁾	CPSC-CH-C1001-09.4 ISO 8124-6	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)	≤ 50 mg/kg	30 mg/kg

Polycyclic Aromatic Hydrocarbons (PAHs) ⁽⁹⁾	AfPs GS 2019	≤ 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	1 mg/kg	0,1 mg/kg
UV Adsorber / Stabilizers ⁽¹⁶⁾	DIN EN 62321-6:2016-05 Extraction with THF at 60°C and determination in GC/MS	1000 mg/kg each	100 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)	ASTM F2923 (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)	ASTM F2923 (extractable on paint and coatings)	≤ 60 mg/kg	5 mg/kg
Antimonium (Sb)	ASTM F2923 (extractable on paint and coatings)	≤ 60 mg/kg	5 mg/kg
Arsenic (As)	ASTM F2923 (extractable on paint and coatings)	≤ 25 mg/kg	5 mg/kg
Barium (Ba)	ASTM F2923 (extractable on paint and coatings)	≤ 1000 mg/kg	100 mg/kg
Selenium (Se)	ASTM F2923 (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 ≤ 0.2 µg/cm ² for week direct contact with skin ≤ 0.5 µg/cm ² for week	0.1 µg/cm ²

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	≤ 90 mg/kg	1 mg/kg
Cadmium on paint (Coated materials)	CPSC CH E 1003-09.1	≤ 100 mg/kg	1 mg/kg
Total Lead	CPSC CH E 1001-08.3	≤ 100 mg/kg	1 mg/kg
Total Cadmium	Ref. CPSC-CH-E-1002-08.3	≤ 1000 mg/kg	1 mg/kg
Total Mercury (Coated materials)	Microwave digestion + ICP- MS/OES	≤ 10 mg/kg	1 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
<p>PACKAGING</p> <p><i>(all materials used) Acid digestion of each single component, and ICP-OES/MS analyses.</i></p> <p><i>The sum of the total content of heavy metals: lead, cadmium, mercury and hexavalent chromium must not exceed 100 mg/kg</i></p>			
Dimethylfumarate (DMFu) CAS Nr. 624-49-7	Ref. ISO 16186	≤ 0,1 mg/kg	0,01 mg/kg

(1) Table 1: Aromatic amines which must not be released from azo dyes.

<u>Substances</u>	<u>CAS Nr.</u>
4-Aminobiphenyl	92-67-1
2-Naphthylamine	91-59-8
p-Chloroaniline	106-47-8
3,3'-Dichlorobenzidine	91-94-1
3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0
4,4'-Oxydianiline	101-80-4
2,4-Toluylendiamine	95-80-7
2,4-Xylidine	95-68-1
Benzidine	92-87-5
o-Aminoazotoluene	97-56-3
2,4-Diaminoanisole	615-05-4
3,3'-Dimethoxybenzidine	119-90-4
p-Cresidine	120-71-8
4,4'-Thiodianiline	139-65-1
2,4,5-Trimethylaniline	137-17-7
2,6-Xylidine	87-62-7
4-Chloro-o-toluidine	95-69-2
2-Amino-4-nitrotoluene	99-55-8
4,4'-Diaminobiphenylmethan	101-77-9
3,3'-Dimethylbenzidine	119-93-7
4,4'-Methylene-bis- (2-chloroaniline)	101-14-4
o-Toluidine	95-53-4
o-Anisidine	90-04-0
4-Aminoazobenzene	60-09-3
4-Cloro-o-toluidinio cloruro	3165-93-3
Acetato di 2-naftilammonio	553-00-4
4-Metossi-, -fenilen diammonio solfato; 2,4-diamminoanisolo solfato	39156-41-7
2.4.5-Trimetilnilina cloridrato	21436-97-5

(2) Table 2: Dyes Carcinogenic		
<u>Substances</u>	<u>C.I. Colour Index</u>	<u>CAS-Nr.</u>
Acid Red 26	16 150	3761-53-3
Basic red 9	42 500	569-61-9
Acid Red 114		6459-94-5
Basic Blu 26		2580-56-5
Basic Green 4 (Cloruro)		569-64-2
Basi Green 4 (libero)		10309-5-2
Basic Green 4 (Ossalato)		2437-29-8/1805-76-4
Violetto Basico 3		548-62-9
Direct Black 28	35260	6745-67-1
Direct Blu 15		2429-74-5
Direct Brown 95		16071-86-6
Dispers Yellow 23	26070	6250-23-
Dispers Orange 149		85136-74-9
Pigment Red 104	77605	12656-85-8
Pigment Yellow 34	77603	1344-37-2
Solvent Yellow 1	11100	60-09-3
Solvent Yellow 2		60-11-7
Solvent Yellow 3		97-56-3
Solvent Blu 4		6786-83-0
Basic Violet 14	42 510	632-99-5
Direct Black 38	30 235	1937-37-7
Direct Blu 6	22 610	2602-46-2
Direct Red 28	22 120	573-58-0
Dispers Blu 1	64 500	2475-45-8
Dispers Orange 11	60 700	82-28-0
Dispers Yellow 3	11 855	2832-40-8
4.4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol		561-41-1

(3) Table 3: Dispers Dyes		
<u>Substances</u>	<u>C.I. Colour Index</u>	<u>CAS-Nr.</u>
Dispers Blue 1	64 500	2475-45-8
Dispers Blue 3	61 505	2475-46-9
Dispers Blue 7	62 500	3179-90-6
Dispers Blue 26	63 305	3860-63-7
Dispers Blue 35		12222-75-2
Disperso Blue 35 A		56524-77-7
Disperso Blue 35 B		56524-76-6
Disperso Blue 102		12222-97-8
Disperso Blue 106		12222-01-7
Disperso Blue 124		61951-51-7
Dispers Brown 1		23355-64-8
Dispers Orange 1	11 080	2581-69-3
Dispers Orange 3	11 005	730-40-5
Dispers Orange 37/76/59	11 132	12223-33-5; 1301-61-6; 51811-42-8
Dispers Orange 149		85136-74-9
Dispers Red 1	11 110	2872-52-8
Dispers Red 11	62 015	2872-48-2
Dispers Red 17	11 210	3179-89-3
Dispers Red 151		61968-47-6
Dispers Yellow 1	10 345	119-15-3
Dispers Yellow 3	11 855	2832-40-8
Dispers Yellow 7		6300-37-4
Dispers Yellow 9	10 375	6373-73-5
Dispers Yellow 23		6250-22-3
Dispers Yellow 39		12236-29-2
Dispers Yellow 49		54824-37-2
Dispers Yellow 56		54077-16-6

(4) Table 4: Phtalates	
<u>Substances</u>	<u>CAS-Nr.</u>
Di-iso-nonylphthalate (DINP)	28553-12-0
Di-n-octylphthalate (DNOP)	117-84-0
Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7
Diisodecylphthalate (DIDP)	26761-40-0
Butylbenzylphthalate (BBP)	85-68-7
Dibutuyphthalate (DBP)	84-74-2
Diisobutylphthalate (DIBP)	84-69-5
Diisopentyl phthalate (DiPP)	605-50-5
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear	84777-06-0
Bis(2-methoxyethyl) phthalate	117-82-8
Di-n-pentyl phthalate (DPENP)	131-18-0
Diethylphthalate (DEP)	84-66-2
Dimethylphthalate (DMP)	131-11-3
Dicyclohexyl Phthalate (DCHP)	84-61-7
Dipropyl Phthalate (DPRP)	131-16-8
Diisoctyl Phthalate (DIOP)	27554-26-3
Diisohexyl phthalate (DIHxP)	71850-09-4
n-Pentyl-isopentylphthalate (nPIPP)	776297-69-9
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
Di-n-hexylphthalate (DnHP)	84-75-3
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5; 68648-93-1

(5) Table 5: Chlorinated Benzenes and Toluenes	
<u>Substances</u>	<u>CAS-Nr.</u>
Dichlorobenzenes	25321-22-6 (541-73-1; 106-46-7)
1.2-Dichlorobenzene	95-50-1
Trichlorobenzenes	12002-48-1 (87-61-6; 120-82-1; 108-70-3)
Tetrachlorobenzenes	634-66-2, 634-90-2, 95-94-3
Pentachlorobenzenes	608-93-5
Hexachlorobenzene	118-74-1
Chlorotoluenes	25168-05-2 (95-49-8; 108-41-8; 106-43-4)
Dichlorotoluenes	29797-40-8 (32768-54-0; 95-73-8; 19398-61-9; 118-69-4; 95-75-0)
Trichlorotoluenes	2077-46-5; 6639-30-1
Tetrachlorotoluenes	2136-89-2; 76057-12-0; 875-40-1; 1006-31-1
Pentachlorotoluene	877-11-2
α -Chlorotoluene; Benzyl Chloride	100-44-7
α,α,α -Trichlorotoluene, Benzotrichloride	98-07-7
$\alpha,\alpha,\alpha,4$ -Tetrachlorotoluene, p-Chlorobenzotrichloride	5216-25-1

(6) Table 6: Organotin Compounds	
<u>Substances</u>	<u>CAS-Nr.</u>
Tributyl-Tin (TBT)	56573-85-4
Dibutyl-Tin (DBT)	1002-53-5
Triphenyl-Tin (TPHT)	668-34-8
Diocetyl-Tin (DOT)	3648-18-8
Bis(tributyltin)oxide (TBTO)	56-35-9
Monobutyltin (MBT)	Various
Tricyclohexyltin (TCyHT)	Various
Trimethyltin (TMT)	Various
Triocetyl tin (TOT)	Various
Tripropyltin (TPT)	Various

(7) Table 7: Flame Retardants	
<u>Substances</u>	<u>CAS-Nr.</u>
Tri-(2,3-dibromopropyl)-phosphate (TRIS-TDBPP)	126-72-7
Tris-(aziridinyl)-phosphin oxide (TEPA)	545-55-1
Polybrominated biphenyls (PBB)	59536-65-1
Pentabromodiphenylether (pentaBDE)	32534-81-9
Octabromodiphenylether (octaBDE)	32536-52-0
Decabromodiphenylether (decaBDE)	1163-19-5
Bis-(2,3-dibromopropyl ether) of tetrabromobisphenol (BDBPT)	21850-44-2
Heptabromodiphenylether (HeptaBDE)	various
Hexabromodiphenylether (HexaBDE)	36483-60-0
Nonabromodiphenylether (NonaBDE)	various
Tetrabromobisphenol A (TBBPA)	79-94-7
Tetrabromodiphenylether (TetraBDE)	5436-43-1
Tris-(chloroisopropyl)phosphate (TCPP)	13674-84-5
Tris-(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8
Tris-(2-Chloroethyl)phosphate (TCEP)	115-96-8
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0
2-Ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)	183658-27-7
Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate (TBPH)	26040-51-7
Dibromobiphenyls (DiBB)	various
Tribromobiphenyls (TriBB)	various
Tetrabromobiphenyls (TetraBB)	various
Pentabromobiphenyls (PentaBB)	various
Heptabromobiphenyls (HeptaBB)	various
Octabromobiphenyls (OctaBB)	various
Nonabromobiphenyls (NonaBB)	various
Decabromobiphenyls (DecaBB)	13654-09-6
Bis (2,3-dibromopropyl)phosphate (BBP-BIS)	5412-25-9
Hexabromocyclododecane (HBCDD)	25637-99-4; 3194-55-6
All other Polybrominated diphenyl ethers (PBDEs)	Various
Trixylyl phosphate (TXP)	25155-23-1
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9

(8) Table 8: Pesticides and Herbicides, Agricultural			
<u>Substances</u>	<u>CAS-Nr.</u>	<u>Substances</u>	<u>CAS-Nr.</u>
2,4,5-T	93-76-5	Endosulfan, β -	33213-65-9
2,4-D	94-75-7	Endrin	72-20-8
Azinophosmethyl	86-50-0	Esfenvalerate	66230-04-4
Azinophosethyl	2642-71-9	Fenvalerate	51630-58-1
Aldrine	309-00-2	Heptachlor	76-44-8
Bromophos-ethyl	4824-78-6	Heptachloroepoxide	1024-57-3
Captafol	2425-06-1	Hexachlorobenzene	118-74-1
Carbaryl	63-25-2	Hexachlorcyclohexane, α -	319-84-6
Chlordane	57-74-9	Hexachlorcyclohexane, β -	319-85-7
Chlordimeform	6164-98-3	Hexachlorcyclohexane, δ -	319-86-8
Chlorfenvinphos	470-90-6	Lindane	58-89-9
Coumaphos	56-72-4	Malathion	121-75-5
Cyfluthrin	68359-37-5	MCPA	94-74-6
Cyhalothrin	91465-08-6	MCPB	94-81-5
Cypermethrin	52315-07-8	Mecoprop	93-65-2
DEF	78-48-8	Metamidophos	10265-92-6
Deltamethrin	52918-63-5	Methoxychlor	72-43-5
DDD	53-19-0, 72-54-8	Mirex	2385-85-5
DDE	3424-82-6, 72-55-9	Monocrotophos	6923-22-4
DDT	50-29-3, 789-02-6	Parathion	56-38-2
Diazinon	333-41-5	Parathion-methyl	298-00-0
Dichlorprop	120-36-2	Phosdrin/Mevinphos	7786-34-7
Dicrotophos	141-66-2	Propethamphos	31218-83-4
Dieldrine	60-57-1	Profenophos	41198-08-7
Dimethoate	60-51-5	Quinalphos	13593-03-8
Dinoseb and salts	88-85-7	Toxaphene	8001-35-2
Isodrin	465-73-6	Kelevan	4234-79-1
Perthan	72-56-0	Stroban	8001-50-1
Telodrin	297-78-9	Cyhalothrin	91465-08-6
Endosulfan, α -	959-98-8	Trifluralin	1582-09-8
DTTB	57648-21-2	Dicofol	115-32-2
Chlordecone (Kepone)	143-50-0	Permethrin	52645-53-1

(9) Table 9: Polycyclic Aromatic Hydrocarbons (PAHs)	
<u>Substances</u>	<u>CAS-Nr.</u>
Benzo (a) Pyrene	50-32-8
Naphthalene	91-20-3
Acenaphthylene	208-96-8
Acenaphthene	83-32-9
Fluorene	86-73-7
Phenanthrene	85-01-8
Anthracene	120-12-7
Fluoranthene	206-44-0
Pyrene	129-00-0
Chrysene	218-01-9
Benzo (a) Anthracene	56-55-3
Benzo (b) Fluoranthene	205-99-2
Benzo (e) Pyrene	192-97-2
Benzo (k) Fluoranthene	207-08-9
Benzo (J) Fluoranthene	205-82-3
Indeno (1,2,3-cd) Pyrene	193-39-5
Dibenzo (a,h) Anthracene	53-70-3
Benzo (g,h,i) Perylene	191-24-2

(10) Table 10: Asbestos	
<u>Substances</u>	<u>CAS-Nr.</u>
Actinolite	77536-66-4
Amosite	12172-73-5
Anthophyllite	77536-67-5
Chrysotile	12001-29-5
Crocidolite	12001-28-4
Tremolite	77536-68-6

(11) Table 11: Phenylmercury Compound	
<u>Substances</u>	<u>CAS-Nr.</u>
Phenylmercury acetate	62-38-4
Phenylmercury neodecanoate	26545-49-3
Phenylmercury Octanoate	13864-38-5
Phenylmercury Propionate	103-27-5
Phenylmercury 2-ethylhexanoate	13302-00-6

(12) Table 12: Per- and Polyfluoroalkyl Substances (PFAS) - NOTE: the following list is a subset of PFAS and it is not exhaustive

PFOS and related substances.		PFOA its salts 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)		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 (C ₇ F ₁₅)-C as one of the structural elements. The following compounds are not included as PFOA-related compounds: - C ₈ F ₁₇ -X, where X = F, Cl, Br; - fluoropolymers that are covered by CF ₃ [CF ₂] _n -R', where R'=any group, n> 16; - perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥ 8 perfluorinated carbons; - perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 perfluorinated 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>	<u>Substances (the following list is not exhaustive please refer to definition above)</u>	<u>CAS-Nr.</u>
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	Perfluorooctanoic acid (PFOA)	335-67-1
Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3	PFOA Salts (examples)	
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8	Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Didecyldimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	PFOA related substances (examples)	
N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	Methyl perfluorooctanoate (Me-PFOA)	376-27-2
2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5
Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7	2-Perfluorooctylethanol (8:2 FTOH)	678-39-7
Perfluorooctane sulfonamide (PFOSA)	754-91-6	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9
Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3	2H,2H-Perfluorodecanoic acid (H ₂ PFDA)	27854-31-5
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		

(12) Table 12: Per- and Polyfluoroalkyl Substances (PFAS) - NOTE: the following list is a subset of PFAS and it is not exhaustive (...cont)

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
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH ₄)	68259-08-5
Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na)	82382-12-5
PFHxS and its salts (examples)	
N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	68259-15-4
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1
Long Chain PFAS	
<p>Long Chain PFAS its salts and related substances are defined by Reg. 2006/1907 EU – REACH annex XVII entry 68, as:</p> <ul style="list-style-type: none"> - Linear and branched perfluorocarboxylic acids of the formula C_nF_{2n+1}-C(=O)OH where n = 8, 9, 10, 11, 12, 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, 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 or 14 as one of the structural elements, including their salts and any combinations thereof <p>The following substances are excluded from this designation:</p> <ul style="list-style-type: none"> - C_nF_{2n+1}-X, where X = F, Cl, or Br where n = 9, 10, 11, 12, 13 or 14, including any combinations thereof, C_nF_{2n+1}-C(=O)OX' where n > 13 and X' = any group, including salts 	
C₉ – C₁₄ PFCAs and Their Salts (examples)	
<u>Substances (the following list is not exhaustive please refer to definition above)</u>	<u>CAS-Nr.</u>
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
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnA)	34598-33-9
Perfluorocycloethanol 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	

(13) Table 13: Chlorinated Solvents, Volatile Organic Compound (VOC), Other Solvents		
<u>Nome</u>	<u>CAS-Nr.</u>	<u>Requirements</u>
Chlorinated Solvents		
Methylene Chloride	75-09-2	≤50 mg/kg (somma)
Trichloroethylene	79-01-6	
1,2 Dichloroethane	107-06-2	
1,1,2 Trichloroethane	79-00-5	
Carbon Tetrachloride	56-23-5	≤1000 mg/kg
Chloroform	67-66-3	≤1000 mg/kg
Pentachloroethane	76-01-7	≤1000 mg/kg
Tetrachloroethylene	127-18-4	≤1000 mg/kg
1,1-Dichloroethylene	75-35-4	≤1000 mg/kg
1,1,1- Trichloroethane	71-55-6	≤1000 mg/kg
1,1,1,2-Tetrachloroethane	630-20-6	≤1000 mg/kg
1,1,2,2-Tetrachloroethane	79-34-5	≤1000 mg/kg
Volatile Organic Compound (VOC)		
Benzene	71-43-2	≤5 mg/kg
Methyl Alcohol	67-56-1	≤1000 mg/kg
N-exane	110-54-1	≤150 mg/kg
Toluylen diisocyanate (free)	26471-62-5	≤10 mg/kg
Toluene	108-88-3	≤200 mg/kg
Other Solvents (metodo EN 17131)		
N-Methyl-2-pyrrolidone (NMP)	872-50-4	≤1000 mg/kg
N,N-Dimethylacetamide (DMAC)	127-19-5	≤1000 mg/kg
2-Methoxyethanol	109-86-4	≤10 mg/kg
Dimethylformamide (DMF)	368-12-2	≤200 mg/kg
Formammide	75-12-7	≤1000 mg/kg

(14) Table 14: Bisphenols	
<u>Nome</u>	<u>CAS-Nr.</u>
Bisphenol-A (BPA)	80-60-7
Bisphenol-S (BPS)	80-09-1
Bisphenol B (BPB)	77-40-7
Bisphenol-F (BPF)	620-92-8
Bisphenol-AF (BPAF)	1478-61-1

(15) Table 15: Nitrosamines	
<u>Nome</u>	<u>CAS-Nr.</u>
N-nitrosodimethylamine (NDMA)	62-75-9
N-nitrosodiethylamine (NDEA)	55-18-5
N-nitrosodipropylamine (NDPA)	621-64-7
N-nitrosodibutylamine (NDBA)	924-16-3
N-nitrosopiperidine (NPIP)	100-75-4
N-nitrosopyrrolidine (NPYR)	930-55-2
N-nitrosomorpholine (NMOR)	59-89-2
N-nitroso N-metyl N-phenylamine (NMPhA)	614-00-6
N-nitroso N-ethyl N-phenylamine (NEPhA)	612-64-6

(16) Table 16: UV Absorbers / Stabilizers	
<u>Nome</u>	<u>CAS-Nr.</u>
UV 320	3846-71-7
UV 327	3864-99-1
UV 328	25973-55-1
UV 350	36437-37-3
Drometrizole	2440-22-4