VALENTINO S.p.A. – PRODUCT RSL (PRSL)

Version: 2024
Application area: Worldwide
User category: Adult

NOTES

1. This document does not cover specific safety requirements for items other than those of the "fashion system" (Ready to Wear, Soft Accessories, Footwear, Leather goods, Jewellery, Eyewear and their Packaging); for example, toys, baby care products, food contact products, electrical and electronic products, cosmetic products, etc. are excluded.
2. For any other product different from those of the “fashion system”, all the compliance and safety requirements are established by the specific regulations in force in each country of production and distribution.
3. EC Regulation no. 1907/2006 (REACH):
   - All materials must be provided according to EC Regulation and all its amendments in force at the time of delivery of the items (http://echa.europa.eu/en/home).
   - All materials must comply with REACH requirements regarding SVHC (“Candidate List” http://echa.europa.eu/en/candidate-list-table) at the time of delivery of the items. In case of presence of any SVHC (more than 0,1% w/w or 1000 ppm), the supplier must inform us immediately.
4. All test methods referred to regulations must be performed according to the release in force at the time of delivery of the items.
5. This document will be annually (or when deemed necessary) updated by the Product Compliance Department, as global laws and regulations are constantly evolving.
6. Substances banned in all chemical products used to process/manufacture raw materials and finished products are listed in ZDHC MRSL (last release).

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1. PRODUCT RESTRICTED SUBSTANCES LIST (PRSL)

1.1 Textile				
Parameter		**Unit**	**Requirements**	**Test method reference**
Acid boric		mg/kg	≤ 1000	Screening Test: acid digestion ICP-MS; Specific Test: Aqueous extraction-TEA derivatization-GC-MS
Asbestos (Appendix 2)		mg/kg	Not detected	Microscopic examination
Bisphenols: BPA and others		mg/kg	≤ 1 (polyester/ elastane materials only)	Solvent extraction, LC-MS / GC-MS analysis
Chlorobenzenes and Chlorotoluenes (Appendix 4)		mg/kg	≤ 1 (sum)	EN 17137
Chloroparaffines: Short chained (SCCPs: C_{10}-C_{13})		mg/kg	≤ 50 (sum)	ISO 22818
Chloroparaffines: Medium chained (MCCPs: C_{14}-C_{17})		mg/kg	≤ 1000 (sum)	
Colour Fastness to	Dry rubbing	grayscale	≥ 3	EN ISO 105-X12; GB 18401: GB/T 3920
	Perspiration (acid and alkaline)	grayscale	≥ 3	EN ISO 105-E04; GB 18401: GB/T 3922
	Saliva	grayscale	N.A.	GB 18401: GB/T 18886
	Water	grayscale	≥ 3	EN ISO 105-E01; GB 18401: GB/T 5713
	Wet rubbing	grayscale	≥ 2/3 (≤ 14 years)	EN ISO 105-X12; GB 31701: GB/T 3920
Dimethyl fumarate		mg/kg	≤ 0,1	ISO/TS 16186 - GB/T 26713
Dyes	Allergenic Disperse (Appendix 1)	mg/kg	Not detectable (≤ 5 mg/kg)	DIN 54231 ISO 16373-2
	Azo: aryl amines can be split off under reductive conditions (Appendix 8)	mg/kg	≤ 20 (each)	UNI EN 14362-1,3 GB/T 17592.1 GB/T 23344
	Carcinogenic (Appendix 3)	mg/kg	Not detectable (≤ 5 mg/kg)	DIN 54231 - Analysis TLC and LC-MS ISO 16373-3
	Navy Blue (Appendix 10)	mg/kg	Not detectable (≤ 5 mg/kg)	Based on DIN 54231
Flame Retardants (Appendix 7)		mg/kg	Not detectable (≤ 5 mg/kg)	GB/T 24279 - ISO 17881-1-2 Extraction with organic solvent – Analysis by GC-MS; GC-ECD; LC-MS; KS 62321
Formaldehyde (free and extractable)		mg/kg	≤ 75	EN ISO 14184-1 GB 18401: GB/T 2912.1 KS K 0611
Heavy Metals (total amount)	Cadmium	mg/kg	≤ 50	EN 16711-1
	Lead	mg/kg	≤ 100	EN 16711-1
Mercury compounds (Appendix 9)		mg/kg	≤ 1 (mercury)	Screening Test method: ISO 17072-2 EN 16711-1
Nonylphenol ethoxylates (NPEO) Octylphenol ethoxylates (OPEO) (Appendix 12)		mg/kg	≤ 100 (sum) ≤ 250 (non-washable recycled materials only)	ISO 18254 -1
Nonylphenols (NP) Octylphenols (OP) (Appendix 13)		mg/kg	≤ 10 (sum)	Extraction with organic solvent – Analysis by GC-MS referred to ISO 21084
Odorous			None	GB 18401 part 6.7
Organotin compounds (Appendix 14)		mg/kg	≤ 1 (TBT, TBTO, TPhT) ≤ 2 (others)	ISO/TS 16179 KS K 0737 NIEA T504.30B3

1.1 Textile			
Parameter	**Unit**	**Requirements**	**Test method reference**
Ortho-phenylphenol (OPP)	mg/kg	≤ 100	Extraction with organic solvent - GC-MS
Pentachlorophenol (PCP) Tetrachlorophenols (TeCP) Trichlorophenols (TCP) (Appendix 5)	mg/kg	≤ 0,5 (sum)	UNI 11057 US EPA 8081 A
Pesticides (Appendix 15)	mg/kg	≤ 1 (sum) (PCP and TeCP excluded)	Chromatographic Test Methods refer to US EPA 8081
PFAS: test (total Fluorine)	mg/kg	≤ 100 (Fluorine)	EN 17813
PFAS: Perfluorooctanesulfonates (PFOS) (Appendix 16)	µg/m^2	≤ 1	CEN/TS 15968
PFAS: Perfluorooctanoic Acid (PFOA) and its salts (Appendix 16)	µg/kg	≤ 25	Extraction with organic solvent – Analysis by LC-MSMS referred to CEN/TS 15968
PFAS: PFOA-related substances (Appendix 16)		≤ 1000 (sum)	
PFAS: Long chain perfluoroalkyl acids (C9-C14) (Appendix 16)		≤ 25	
PFAS: Long chain perfluoroalkyl related substances (C9-C14) (Appendix 16)	µg/kg	≤ 260 (sum)	Extraction with organic solvent – Analysis by LC-MSMS referred to CEN/TS 15968
PFAS: Short chain perfluoroalkyl substances (Appendix 16)	mg/kg	≤ 1000	
pH value of aqueous extract	pH	4,0÷7,5	EN ISO 3071 GB 18401: GB/T 7573
Polychlorobiphenyls (PCB) (Appendix 18)	mg/kg	≤ 0,1	Ref. EPA 3540C + EPA 8082A
Polychloronaphthalenes (PCN) (Appendix 19)	mg/kg	≤ 1	Ref. EPA 3550C + EPA 8270E
Polycyclic Aromatic Hydrocarbons (IPA - PAH) (Appendix 20)	mg/kg	≤ 1 (synthetic fibers only)	AfPS GS 2019:01 ISO/TS 16190
Quinoline (CAS 91-22-5)	mg/kg	≤ 50	GC-MS extraction MeOH or THF and HPLC-MS
Siloxanes (Appendix 21)	mg/kg	≤ 1000	Solvent extraction, GC-MS analysis

Parameter **Heavy Metals (extractable)**	**Unit**	**Requirements**	**Test method reference**
Antimony	mg/kg	≤ 30	Extractable Content: extraction with acid perspiration according to: EN 16711-2 Cr (VI); GB/T 17593-3; ISO 17075
Arsenic	mg/kg	≤ 1	
Cadmium	mg/kg	≤ 0,1	
Chromium (total)	mg/kg	≤ 2	
Chromium VI	mg/kg	≤ 0,5	
Cobalt	mg/kg	≤ 4	
Copper	mg/kg	≤ 50	
Lead	mg/kg	≤ 1	
Mercury	mg/kg	≤ 0,02 (natural fibres only)	
Nickel	mg/kg	≤ 4	

1.1 Textile - coating material				
Parameter (referring to coating material)		**Unit**	**Requirements**	**Test method reference**
Bisphenol A (BPA)		mg/kg	≤ 50	Solvent extraction, LC-MS / GC-MS analysis
Heavy Metals (total amount)	Cadmium	mg/kg	N.A.	EN 16711-1 CPSC-CH-E1003-09.1
	Lead	mg/kg	≤ 90	Microwave digestion; ICP-MS/OES - CPSC-CH-E-1003-09.1 - GB/T 30157
	Mercury	mg/kg	≤ 10	Microwave digestion ICP-MS/OES
PFAS: test (total Fluorine)		mg/kg	≤ 100 (Fluorine)	EN 17813
Phthalates (Appendix 17)	BBP, DBP, DEHP, DIBP, DPP, DMEP, DIHP, DHNUP	mg/kg	≤ 50 (each)	EN 14389 CPSC-CH-C1001-09.4 GB/T 20388 ISO 8124-6
	DIDP, DNOP, DINP	mg/kg	≤ 1000 (sum)	
	DHP-DnHP	mg/kg	≤ 1000	
	All other esters of o-phthalic acid	mg/kg	N.A.	
Solvents (Appendix 22)		mg/kg	According to dedicated appendix	GB 19340:2003 "Extraction HS - SPME or Purge &Trap and Analysis by GC-MS" ISO/TS 16189
UV-Stabilizers (Appendix 23)		mg/kg	≤ 1000	ISO/DIS 24040 Solvent extraction, LC-MS analysis

1.2 Leather				
Parameter		**Unit**	**Requirements**	**Test method reference**
Acid boric		mg/kg	≤ 1000	Screening Test: acid digestion - ICP-MS Specific Test: aqueous extraction - TEA derivatization - GC-MS
Asbestos (Appendix 2)		mg/kg	Not detected	Microscopic examination
Bisphenols	BPA	mg/kg	≤ 200	Solvent extraction, LC-MS / GC-MS analysis
	BPF	mg/kg	≤ 1000	
	BPS	mg/kg	≤ 1000	
	BPB	mg/kg	≤ 1000	
	BPAF	mg/kg	≤ 1000	
Chloroparaffines: Short chained (SCCPs: C_{10}-C_{13})		mg/kg	≤ 50 (sum)	ISO 18219-1
Chloroparaffines: Medium chained (MCCPs: C_{14}-C_{17})		mg/kg	≤ 1000 (sum)	ISO 18219-2
Chromium VI		mg/kg	≤ 3	EN ISO 17075-2
Dimethyl fumarate		mg/kg	≤ 0,1	ISO/TS 16186
Dioxins and furans (Appendix 6)		mg/kg	According to dedicated appendix	Extraction with organic solvent - Analysis by GC-MS
Dyes	Allergenic Disperse (Appendix 1)	mg/kg	Not detectable (≤ 5 mg/kg)	DIN 54231
	Azo: aryl amines can be split off under reductive conditions (Appendix 8)	mg/kg	≤ 30 (each)	EN ISO 17234-1,2 GB 20400: GB/T 19942 JIS L 1940
	Carcinogenic (Appendix 3)	mg/kg	Not detectable (≤ 5 mg/kg)	DIN 54231 - Analysis TLC and LC-MS ISO 16373-2
	Navy Blue (Appendix 10)	mg/kg	Not detectable (≤ 1 mg/kg)	Based on DIN 54231
Flame Retardants (Appendix 7)		mg/kg	Not detectable (≤ 5 mg/kg)	Extraction with organic solvent - Analysis by: GC-MS; GC-ECD; LC-MS - GB/T 24279

1.2 Leather				
Parameter		**Unit**	**Requirements**	**Test method reference**
Formaldehyde (free and extractable)		mg/kg	≤ 75	EN ISO 17226-1 GB 20400: GB/T 19941
Glutaraldehyde		mg/kg	≤ 1000	Extraction with organic solvent + Analysis by GC-MS
Heavy Metals (extractable)	Cadmium	mg/kg	≤ 0,1	EN ISO 17072-1
	Lead	mg/kg	≤ 0,8	EN ISO 17072-1
	Mercury	mg/kg	≤ 0,02	EN ISO 17072-1
Heavy Metals (total amount)	Cadmium	mg/kg	≤ 75	EN ISO 17072-2
	Lead	mg/kg	≤ 100 ≤ 90 (patent leather)	EN ISO 17072-2
Mercury compounds (Appendix 9)		mg/kg	≤ 1 (mercury)	Screening Test method: ISO 17072-2
Nonylphenol ethoxylates (NPEO) Octylphenol ethoxylates (OPEO) (Appendix 12)		mg/kg	≤ 100 (sum)	Extraction with organic solvent - Analysis by LC-MS ISO 18218-1
Nonylphenols (NP) Octylphenols (OP) (Appendix 13)		mg/kg	≤ 100 (sum)	Extraction with organic solvent - Analysis by GC-MS refer to ISO 21084
Organotin compounds (Appendix 14)		mg/kg	≤ 1 (TBT, TBTO, TPhT) ≤ 2 (others)	ISO/TS 16179
Ortho-phenylphenol		mg/kg	≤ 750	ISO 13365
Pentachlorophenol (PCP) Tetrachlorophenols (TeCP) Trichlorophenols (TCP) (Appendix 5)		mg/kg	≤ 0,5 (sum)	EN ISO 17070
Pesticides (Appendix 15)		mg/kg	≤ 1 (sum) (PCP and TeCP excluded)	Chromatographic Test Methods refer to US EPA 8081
PFAS: test (total Fluorine)		mg/kg	≤ 100 (Fluorine)	EN 17813
PFAS: Perfluorooctanesulfonates (PFOS) (Appendix 16)		µg/m^2	≤ 1	ISO 23702-1
PFAS: Perfluorooctanoic Acid (PFOA) and its salts (Appendix 16)		µg/kg	≤ 25	
PFAS: PFOA-related substances (Appendix 16)			≤ 1000 (sum)	
PFAS: Long chain perfluoroalkyl acids (C9-C14) (Appendix 16)			≤ 25	
PFAS: Long chain perfluoroalkyl related substances (C9-C14) (Appendix 16)			≤ 260 (sum)	
PFAS: Short chain perfluoroalkyl substances (Appendix 16)		mg/kg	≤ 1000	Refer to ISO 23702-1
pH (skin contact)		pH	3,5 ÷ 7,5	EN ISO 4045
Phthalates (Appendix 17)	BBP, DBP, DEHP, DIBP, DPP, DMEP, DIHP, DHNUP	mg/kg	≤ 50 (each)	CPSC-CH-C1001-09.4 Ref. ISO 16181
	DIDP, DNOP, DINP	mg/kg	≤ 1000 (sum)	
Phthalates (Appendix 17)	DHP-DnHP	mg/kg	≤ 1000	CPSC-CH-C1001-09.4 Ref. ISO 16181
	All other esters of o-phthalic acid	mg/kg	N.A.	
Polychlorobiphenyls (PCB) (Appendix 18)		mg/kg	≤ 0,1	Ref. EPA 3540C + EPA 8082A

1.2 Leather			
Parameter	**Unit**	**Requirements**	**Test method reference**
Polychloronaphthalenes (PCN) (Appendix 19)	mg/kg	≤ 1	Ref. EPA 3550C + EPA 8270E
Siloxanes (Appendix 21)	mg/kg	≤ 1000	Solvent extraction, GC-MS analysis
Solvents (Appendix 22)	mg/kg	According to dedicated appendix	GB 19340:2003 "Extraction HS - SPME or Purge &Trap and Analysis by GC-MS"; ISO/TS 16189
UV-Stabilizers (Appendix 23)	mg/kg	≤ 1000	ISO/DIS 24040 Solvent extraction, LC-MS analysis

1.3 Plastic				
Parameter		**Unit**	**Requirements**	**Test method reference**
Asbestos (Appendix 2)		mg/kg	Not detected	Microscopic examination
Bisphenol A	Migration	mg/L	≤ 0,04	EN 71-10/11 (migration)
	Total amount	mg/kg	≤ 1	Solvent extraction, LC-MS / GC-MS analysis
Chloroparaffines: Short chained (SCCPs: C_{10}-C_{13})		mg/kg	≤ 50 (sum)	Ref. ISO 18219-1
Chloroparaffines: Medium chained (MCCPs: C_{14}-C_{17})		mg/kg	≤ 1000 (sum)	Ref. ISO 18219-2
Dioxin and Furans (Appendix 6)		mg/kg	According to dedicated appendix	Extraction with organic solvent - GC-MS
Flame Retardants (Appendix 7)		mg/kg	Not detectable (≤ 5 mg/kg)	Extraction with organic solvent - Analysis by GC-MS; GC-ECD; LC-MS
Heavy Metals (total amount)	Cadmium	mg/kg	≤ 75	EN 1122 (Microwave digestion - ICP)
	Lead	mg/kg	≤ 100 ≤ 90 (coating materials)	Microwave digestion; ICP-MS/OES - ref: CPSC-CH-E-1002-08.3 CPSC-CH-E-1003-09.1 (painted access.)
	Mercury	mg/kg	≤ 10 (coating materials)	Microwave digestion ICP-MS/OES
Organotin compounds (Appendix 14)		mg/kg	≤ 1 (TBT, TBTO, TPhT) ≤ 2 (others)	ISO/TS 16179
PFAS: test (total Fluorine)		mg/kg	≤ 100 (Fluorine)	EN 17813
Phthalates (Appendix 17)	BBP, DBP, DEHP, DIBP, DPP, DMEP, DIHP, DHNUP	mg/kg	≤ 50 (each)	CPSC-CH-C1001-09.4; ISO 8124-6
	DIDP, DNOP, DINP	mg/kg	≤ 1000 (sum)	
	DHP-DnHP,	mg/kg	≤ 1000	
	All other esters of o-phthalic acid	mg/kg	N.A.	
Polychlorobiphenyls (PCB) (Appendix 18)		mg/kg	≤ 0,1	Ref. EPA 3540C + EPA 8082A
Polychloronaphthalenes (PCN) (Appendix 19)		mg/kg	≤ 1	Ref. EPA 3550C + EPA 8270E
Polycyclic Aromatic Hydrocarbons (IPA - PAH) (Appendix 20)		mg/kg	≤ 1	AfPS GS 2019:01 PAK
Siloxanes (Appendix 21)		mg/kg	≤ 1000	Solvent extraction, GC-MS analysis
Solvents (Appendix 22)		mg/kg	According to dedicated appendix	GB 19340:2003 "Extraction HS - SPME or Purge &Trap and Analysis by GC-MS"; ISO/TS 16189
UV-Stabilizers (Appendix 23)		mg/kg	≤ 1000	ISO/DIS 24040 Solvent extraction, LC-MS analysis
VCM - vinyl chloride monomer (CAS 75-01-4)		mg/kg	≤ 1	EN 6401

1.4 Metal				
Parameter		**Unit**	**Requirements**	**Test method reference**
Arsenic (total amount)		mg/kg	≤ 1000	Microwave digestion ICP-MS/OES GB/T 21198-6 - GB/T 28021
Bisphenol A (BPA)		mg/kg	≤ 1 (coating materials)	Solvent extraction, LC-MS / GC-MS analysis
Chromium VI		mg/kg	≤ 1000	GB/T 28019
Heavy Metals (total amount)	Cadmium	mg/kg	≤ 75	Microwave digestion ICP-MS/OES ref: GB/T 28021
	Lead	mg/kg	≤ 100 ≤ 90 (coating materials)	Microwave digestion ICP-MS/OES ref: CPSC-CH-E-1001-08.3 CPSC-CH-E-1003-09.1 (painted acc.) GB/T 28021
	Mercury	mg/kg	≤ 1000 ≤ 10 (coating materials)	Microwave digestion ICP-MS/OES GB/T 21198-6 - GB/T 28021
Nickel (released from metal accessories in direct and prolonged contact with skin)		µg/ cm² x week	≤ 0,50 ≤ 0,20 (only for pierced parts of human body)	EN 1811 (no coated, no painted and no plated accessories) EN 12472 + EN 1811 (coated, painted and plated accessories) EN 16128 (spectacle frames and sunglasses)
PFAS: test (total Fluorine)		mg/kg	≤ 100 (Fluorine)	EN 17813
Phthalates (coating materials) (Appendix 17)	BBP, DBP, DEHP, DIBP, DPP, DMEP, DIHP, DHNUP, DHP-DnHP	mg/kg	≤ 50	CPSC-CH-C1001-09.4; ISO 8124-6
	DIDP, DNOP, DINP	mg/kg	≤ 1000	
	All other esters of o-phthalic acid	mg/kg	N.A.	
Polychlorobiphenyls (PCB) (Appendix 18)		mg/kg	≤ 0,1 (coating materials)	Ref. EPA 3540C + EPA 8082A
Polychloronaphthalenes (PCN) (Appendix 19)		mg/kg	≤ 1 (coating materials)	Ref. EPA 3550C + EPA 8270E

1.5 Glass and Crystal				
Parameter		**Unit**	**Requirements**	**Test method reference**
Bisphenol A (BPA)		mg/kg	≤ 1 (coating materials)	Solvent extraction, LC-MS / GC-MS analysis
Heavy Metals (total amount)	Cadmium	mg/kg	≤ 75	Microwave digestion ICP-MS/OES ref: CPSC-CH-E-1002-08.3
	Lead (*)	mg/kg	≤ 100 ≤ 90 (coating materials)	CPSC-CH-E-1002-08.3 CPSC-CH-E-1003-09.1 (painted accessories)
	Mercury	mg/kg	≤ 1000 ≤ 10 (coating materials)	Microwave digestion ICP-MS/OES
PFAS: test (total Fluorine)		mg/kg	≤ 100 (Fluorine)	EN 17813
Polychlorobiphenyls (PCB) (Appendix 18)		mg/kg	≤ 0,1 (coating materials)	Ref. EPA 3540C + EPA 8082A
Polychloronaphthalenes (PCN) (Appendix 19)		mg/kg	≤ 1 (coating materials)	Ref. EPA 3550C + EPA 8270E

(*) As exemption, the Lead total amount is not applicable to crystal as defined in Annex I (categories 1, 2, 3 and 4) of the Directive 69/493/EEC.

1.6 Wood and Similar (Bamboo, Straw, Sisal, Cork, etc.)				
Parameter		**Unit**	**Requirements**	**Test method reference**
Acid boric		mg/kg	≤ 1000	Screening Test: acid digestion - ICP-MS; Specific Test: aqueous extraction - TEA derivatization - GC-MS
Asbestos (Appendix 2)		mg/kg	Not detected	Microscopic examination
Bisphenol A (BPA)		mg/kg	≤ 1 (coating materials)	Solvent extraction, LC-MS / GC-MS analysis
Dimethyl fumarate		mg/kg	≤ 0,1	ISO/TS 16186
Flame Retardants (Appendix 7)		mg/kg	Not detectable (≤ 5 mg/kg)	Extraction with organic solvent - Analysis by GC-MS; GC-ECD; LC-MS
Formaldehyde (free and extractable)		mg/kg	≤ 75	EN 717-3
Heavy Metals (total amount)	Arsenic	mg/kg	≤ 1	Microwave digestion - ICP-MS/OES
	Cadmium	mg/kg	≤ 75	EN 1122 Microwave digestion; ICP-MS/OES ref: CPSC-CH-E-1004-11
	Lead	mg/kg	≤ 90 (coating materials)	Microwave digestion; ICP-MS/OES - ref: CPSC-CH-E-1002-08.3 CPSC-CH-E-1003-09.1 (painted acc.)
	Mercury	mg/kg	≤ 1000 ≤ 10 (painted accessories)	Microwave digestion ICP-MS/OES
Mercury compounds (Appendix 9)		mg/kg	≤ 1 (mercury)	Microwave digestion; ICP-MS/OES
Organotin compounds: (Appendix 14)		mg/kg	≤ 1 (TBT, TBTO, TPhT) ≤ 2 (others)	ISO/TS 16179
Pentachlorophenol (PCP) Tetrachlorophenols (TeCP) Trichlorophenols (TCP) (Appendix 5)		mg/kg	≤ 0,5	BVL B 82.02-08 (modified) - Potassium Hydroxide extraction direct LC-MS analysis or derivatization followed by GC-MS analysis
PFAS: test (total Fluorine)		mg/kg	≤ 100 (Fluorine)	EN 17813
Polychlorobiphenyls (PCB) (Appendix 18)		mg/kg	≤ 0,1 (coating materials)	Ref. EPA 3540C + EPA 8082A
Polychloronaphthalenes (PCN) (Appendix 19)		mg/kg	≤ 1 (coating materials)	Ref. EPA 3550C + EPA 8270E
Polycyclic Aromatic Hydrocarbons (IPA - PAH) (Appendix 20)		mg/kg	≤ 1	AfPS GS 2014:01 PAK
Preservatives: Cyfluthrin, Cypermethrin, Deltamethrin, Lindane, Permethrin		mg/kg	≤ 5 Cyfluthrin, Cypermethrin, Deltamethrin, Permethrin ≤ 1 Lindane	EN 71-9: GC Test Method (GC-MS; GC-ECD); extraction ethylic alcohol/ acetic acid
Siloxanes (Appendix 21)		mg/kg	≤ 1000	Solvent extraction, GC-MS analysis
Solvents (Appendix 22)		mg/kg	According to dedicated appendix	GB 19340:2003 "Extraction HS-SPME or Purge &Trap and Analysis by GC-MS" ISO/TS 16189

1.7 Paper and similar				
Parameter		**Unit**	**Requirements**	**Test method reference**
Azo Dyes: aryl amines can be split off under reductive conditions (Appendix 8)		mg/kg	≤ 20	UNI EN ISO 14362-1,3 GB/T 17592.1 GB/T 23344
Bisphenols	BPA	mg/kg	≤ 200	Solvent extraction, LC-MS / GC-MS analysis
	BPF	mg/kg	≤ 1000	
	BPS	mg/kg	≤ 1000	
Formaldehyde (free and extractable)		mg/kg	≤ 75	EN 645; EN 1541
Heavy Metals (total amount)	Cadmium	mg/kg	≤ 100 (sum)	Microwave digestion ICP-MS/OES ref: CPSC-CH-E-1002-08.3; Cr VI: EN ISO 17075-2
	Chromium VI	mg/kg		
	Lead	mg/kg		
	Mercury	mg/kg		
Nonylphenols (NP) Octylphenols (OP) (Appendix 13)		mg/kg	≤ 100 (sum)	Extraction with organic solvent Analysis by GC-MS, ref: ISO 18857-1
Nonylphenol ethoxylates (NPEO) Octylphenol ethoxylates (OPEO) (Appendix 12)		mg/kg	≤ 100 (sum)	Extraction with organic solvent Analysis by LC-MS, ref: ISO 18254-1
PFAS: test (total Fluorine)		mg/kg	≤ 100 (Fluorine)	EN 17813
Phthalates (painting/coating materials) (Appendix 17)	BBP, DBP, DEHP, DIBP, DPP, DMEP, DIHP, DHNUP, DHP-DnHP	mg/kg	≤ 50	EN 14389 CPSC-CH-C1001-09.4 GB/T 20388 ISO 8124-6
	DIDP, DNOP, DINP	mg/kg	<1000 (sum)	
	All other esters of o-phthalic acid	mg/kg	N.A.	
Siloxanes (Appendix 21)		mg/kg	≤ 1000	Solvent extraction, GC-MS analysis

1.8 Additional Requirement for Footwear					
Rubber Shoes					
Parameter		**Field of application**	**Unit**	**Requirements**	**Test method reference**
Chlorinated phenols: PCP and 2,3,5,6-TeCP		Uppers, linings and insocks (textile, synthetic leather and artificial leather)	mg/kg	≤ 0,5	GB/T 18414.1 - 2
Heavy Metals (extractable)	Arsenic		mg/kg	≤ 1	GB/T 17593.4
	Cadmium		mg/kg	≤ 0,1	GB/T 17593.1
	Lead		mg/kg	≤ 1	GB/T 17593.1
pH Value			pH	4,0 ÷ 9,0	GB/T 7573
Decomposable harmful aromatic amine dyes (Appendix 8)		Textile, synthetic leather, artificial leather, leather and fur	mg/kg	≤ 20 (textile) ≤ 30 (leather and fur)	GB/T 17592 textile; GB/T 19942 leather and fur
Dimethyl fumarate			mg/kg	≤ 0,1	ISO/TS 16186; GB/T 26713
Formaldehyde			mg/kg	≤ 75	GB/T 2912.1 textile; GB/T 19941 leather and fur
Color fastness to rubbing		Lining and insocks (staining)	gray scale	≥ 2/3	QB/T 2882
N-nitrosamines (Appendix 11)		Rubber components	mg/kg	≤ 0,5	GB/T 24153

2. PRODUCT SAFETY REQUIREMENTS

2.1 Main Requirements (All Products)			
Parameter	**Field of application**	**Requirements**	**Test method reference**
Magnetic component	All products	Magnetic Flux Index < 50 kG^2mm^2 and in compliance in small part test Specific warning is mandatory	ISO 8124-1
Sharp edge	All products	No sharp edge	GB/T 31702; EN-71-1; 16 CFR Parts 1500.49 ASTM F 963 4.7
Sharp point	All products	No sharp point	GB/T 31702 ; EN-71-1 ; 16 CFR Parts 1500.48 ASTM F 963 4.8

2.2 Flammability for Textile (Raw Material and Finished Product)			
Field of application	**Requirements**	**Country**	**Test method reference**
Adults Clothing	The flame spread over 127 mm may not be shorter than 4 seconds.	Netherlands	ASTM D1230
	Clothing Products for adults: flame spread of 127 mm must be no less than 4 seconds. Other apparel products and fabric suitable for clothing such as when testing the fabric should not have a burn time of 5 seconds or less.	Norway	ASTM D1230-61
	Textile materials should not be flammable and combustible that they pose a disproportionately high risk. Garments, and yarns for the manufacture of garments should not have rapid flame spread on its surface.	Switzerland	SN EN 1103
Adults Clothing	Plain Surface Fabric: Class 1; Raised Surface Fabric: Class 1 - Class 2. Exemption: Plain surface fabrics: with weight exceeding 2.6 oz/yd^2 (about 88 g/m^2) or not weight dependent if obtained entirely or with a blend only made of the following fibers: acrylic, mod acrylic, nylon, olefin, polyester, wool. Raised surface fabrics: not weight dependent if obtained entirely or with a blend only made of the following fibers: acrylic, mod acrylic, nylon, olefin, polyester, wool.	USA	16 CFR Parts 1610
General textile products	Textile products are prohibited if they have a flame spread time of one of the following: 3.5 seconds or less, if the product does not have a raised fiber surface; or 4 seconds or less, if the product has a raised fiber surface and exhibits ignition or fusion of its base fibers.	Canada	CAN/CGSB 4.2 N. 27.5-94
	Textile materials should not be flammable and combustible that they pose a disproportionately high risk. Garments, and yarns for the manufacture of garments should not have rapid flame spread on its surface.	Switzerland	SN EN 1101; SN EN 1102; SN EN 1103
Vinyl plastic film	The rate of burning shall not exceed 1.2 in/sec.	USA	16 CFR 1611

2.3 Hygiene and Cleanliness for Feather and Down			
Parameter	**Unit**	**Requirements**	**Test method reference**
Mesophilic aerobic microbial count	Colony Forming units (CFU/g)	$< 10^6$	EN 1884
Oxygen index number	Oxygen index number	≤ 20	EN 1162
		≤ 4,8	JIS L1903
		≤ 10	ASTM D-4522
Salmonella	Colony Forming units (CFU/g)	Absent in 20 g	EN 1884
Streptococci	Colony Forming units (CFU/g)	$< 10^2$	EN 1884
Sulphite reducing clostridia count	Colony Forming units (CFU/g)	$< 10^2$	EN 1884

3. GLOSSARY: abbreviations and definitions

- CAS = Chemical Abstracts Service. CAS Registry Numbers (often referred to as CAS RNs or CAS Numbers) are unique identifiers for chemical substances.
- CEN = European Committee for Standardization.
- CEN/TS = Technical Specification established by CEN.
- CPSC = Consumer Product Safety Commission. Main U.S. government agency responsible for product safety and for enforcement of CPSIA.
- CPSIA = Consumer Product Safety Improvement Act.
- CFU (Colony Forming Units) = unit used to estimate the number of viable bacteria or fungal cells in a sample: the value shown is the base 10 logarithms of the concentration.
- DIN = German Institute for Standardisation (Deutsches Institut für Normung).
- ECD = Electron Capture Detector.
- EN = European Standard.
- EPA = Environmental Protection Agency (U.S.).
- GB = Chinese national standards issued by the Standardization Administration of China (SAC), the Chinese National Committee of the ISO and IEC. GB are mandatory standards.
- GB/T = "recommended" Chinese standards.
- GC-MS = Gas Chromatography/Mass Spectrometer.
- ICP-MS = Inductively Coupled Plasma Mass Spectrometry.
- ISO = International Organization for Standardization.
- ISO/TS = ISO technical specification.
- JIS = Japanese Industrial Standard.
- LFGB = Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch - German Law Book on food, consumer article and feed.
- LC-MS = Liquid Chromatography/Mass Spectrometer.
- mg/L = milligram per liter.
- mg/kg = milligram per kilogram, unit describing concentrations of chemical substances. 1 mg/kg can also be notated as 1 ppm (Parts Per Million) or 1 microgram per gram (µg/g).
- pH = potential of hydrogen, is a numeric scale used to specify the acidity or basicity of an aqueous solution.
- N.A. = Not applicable.
- Not detectable (≤ XX mg/kg) = the number XX is the lowest limit value which can be detected by the selected test method.
- Not detected = the substance must not be present in the finished product.
- REACH = Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals.
- SPME = Solid-phase micro extraction.
- SVHC = Substance of Very High Concentration.
- TLC = Thin-Layer Chromatography.
- UNI = Ente Nazionale Italiano di Unificazione, is a non-profit private association recognized by Italian State and the European Union.

4. TRANSLATION OF UNITS: conversion table for mg/kg (ppm) and %

mg/kg (ppm)	0,01	0,1	1	10	100	1.000	10.000	100.000	1000.000
%	0,000001	0,00001	0,0001	0,001	0,01	0,1	1	10	100

5. APPENDIX: INDIVIDUAL SUBSTANCES

1. Allergenic Disperse Dyes
2. Asbestos
3. Carcinogenic Dyes
4. Chlorobenzenes and Chlorotoluenes
5. Chlorophenols
6. Dioxin and Furans
7. Flame Retardants
8. Forbidden Aryl amines
9. Mercury compounds
10. Navy Blue
11. N-nitrosamines
12. Nonylphenolethoxylates (NPEO) - Octylphenolethoxylates (OPEO)
13. Nonylphenols (NP) - Octylphenols (OP)
14. Organotin compounds
15. Pesticides
16. PFAS
17. Phthalates
18. Polychlorobiphenyls (PCB)
19. Polychloronaphthalenes (PCN)
20. Polycyclic Aromatic Hydrocarbons (IPA - PAH)
21. Siloxsanes
22. Solvents: Chlorinated Solvents, Volatile Organic Compound (VOC) and Other Solvents
23. UV-Stabilizers

Appendix 1: Allergenic Disperse Dyes		C.I. No.	CAS No.
1	C.I. Disperse Blue 1	C.I. 64 500	2475-45-8
2	C.I. Disperse Blue 3	C.I. 61 505	2475-46-9
3	C.I. Disperse Blue 7	C.I. 62 500	3179-90-6
4	C.I. Disperse Blue 26	C.I. 63 305	3860-63-7
5	C.I. Disperse Blue 102		12222-97-8
6	C.I. Disperse Blue 106		12223-01-7
7	C.I. Disperse Blue 124		61951-51-7
8	C.I. Disperse Brown 1		23355-64-8
9	C.I. Disperse Orange 1	C.I. 11 080	2581-69-3
10	C.I. Disperse Orange 3	C.I. 11 005	730-40-5
11	C.I. Disperse Orange 37/76	C.I. 11 132	12223-33-5
12	C.I Disperse Orange 59	C.I. 11 132	
13	C.I. Disperse Orange 149 (*)		85136-74-9
14	C.I. Disperse Red 1	C.I. 11 110	2872-52-8
15	C.I. Disperse Red 11	C.I. 62 015	2872-48-2
16	C.I. Disperse Red 17	C.I. 11 210	3179-89-3
17	C.I. Disperse Yellow 1	C.I. 10 345	119-15-3
18	C.I. Disperse Yellow 3	C.I. 11 855	2832-40-8
19	C.I. Disperse Yellow 9	C.I. 10 375	6373-73-5
20	C.I. Disperse Yellow 23 (*)		6250-22-3
21	C.I. Disperse Yellow 39		12236-29-2
22	C.I. Disperse Yellow 49		54824-37-2
(*) Azo dye from which forbidden aryl amine (4-amino azobenzene) can be split off under reductive conditions.			

Appendix 2: Asbestos		CAS No.
1	Actinolite	77536-66-4
2	Amosite	12172-73-5
3	Anthophyllite	77536-67-5
4	Chrysotile	12001-29-5
5	Crocidolite	12001-28-4
6	Tremolite	77536-68-6

	Appendix 3: Carcinogenic Dyes	C.I. No.	CAS No.
1	C.I. Acid Red 26	C.I. 16 150	3761-53-3
2	C.I. Acid Red 114		6459-94-5
3	C.I. Basic Blue 26		2580-56-5
4	C.I. Basic Green 4 (Chloride)		569-64-2
5	C.I. Basic Green 4 (Free)		10309-95-2
6	C.I. Basic Green 4 (Oxalate)		2437-29-8
7	C.I. Basic Red 9	C.I. 42 500	569-61-9
8	C.I Basic Violet 3		548-62-9
9	C.I. Basic Violet 14	C.I. 42 510	632-99-5
10	C.I. Direct Black 28	C.I. 35260	6745-67-1
11	C.I. Direct Black 38	C.I. 30 235	1937-37-7
12	C.I. Direct Blue 6	C.I. 22 610	2602-46-2
13	C.I. Direct Blue 15		2429-74-5
14	C.I. Direct Brown 95		16071-86-6
15	C.I. Direct Red 28	C.I. 22 120	573-58-0
16	C.I. Disperse Blue 1	C.I. 64 500	2475-45-8
17	C.I. Disperse Yellow 3	C.I. 11 855	2832-40-8
18	C.I. Disperse Yellow 23 (*)	C.I. 26 070	6250-23-3
19	C.I. Disperse Orange 11	C.I. 60700	82-28-0
20	C.I. Disperse Orange 149 (*)		85136-74-9
21	C.I. Pigment Red 104	C.I. 77605	12656-85-8
22	C.I. Pigment Yellow 34	C.I.77603	1344-37-2
23	C.I. Solvent Yellow 1	C.I. 11100	60-09-3
24	C.I. Solvent Yellow 3		97-56-3
(*) Azo dye from which forbidden aryl amine (4-amino azobenzene) can be split off under reductive conditions			

	Appendix 4: Chlorobenzenes and Chlorotoluenes	CAS No.
1	Chlorotoluenes (all isomers)	25168-05-2
2	Dichlorobenzenes (all isomers)	25321-22-6
3	Dichlorotoluenes (all isomers)	29797-40-8
4	Hexachlorobenzene	118-74-1
5	Pentachlorobenzene	608-93-5
6	Pentachlorotoluene	877-11-2
7	Tetrachlorobenzenes	634-66-2; 634-90-2; 95-94-3
8	Tetrachlorotoluenes	2136-89-2; 5216-25-1
9	Trichlorobenzenes (all isomers)	12002-48-1

Appendix 5: Chlorophenols		CAS No.
1	Pentachlorophenol (PCP)	87-86-5
2	2,3,5,6 Tetrachlorophenols	935-95-5
3	2,3,4,6 Tetrachlorophenols	58-90-2
4	2,3,4,5 Tetrachlorophenols	4901-51-3
5	2,3,4-Trichlorophenol	15950-66-0
6	2,3,5-Trichlorophenol	933-78-8
7	2,3,6-Trichlorophenol	933-75-5
8	2,4,5-Trichlorophenol	95-95-4
9	2,4,6-Trichlorophenol	88-06-2
10	3,4,5-Trichlorophenol	609-19-8

Appendix 6: Dioxin and Furans		CAS No.	Group	Limit (µg/kg)
1	1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4	1	≤ 1
2	2,3,4,7,8-pentachlorodibenzo-furan	57117-31-4		
3	2,3,7,8-tetrachlorodibenzo-furan	51207-31-9		
4	2,3,7,8-tetrachlorodibenzo-p-dioxin	1746-01-6		
5	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6	2	≤ 5
6	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7		
7	1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9		
8	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3		
9	1,2,3,7,8,9-hexachlorodibenzofuran	57117-41-6		
10	1,2,3,7,8-pentachlorodibenzofuran	57117-41-6		
11	2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5		
12	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9	3	≤ 100
13	1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4		
14	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9		
15	1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0		
16	1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7		
17	1,2,3,7,8-pentabromodibenzo-p-dioxin	109333-34-8	4	≤ 1
18	2,3,4,7,8-pentabromodibenzofuran	131166-92-2		
19	2,3,7,8-tetrabromodibenzofuran	67733-57-7		
20	2,3,7,8-tetrabromodibenzo-p-dioxin	50585-41-6		
21	1,2,3,4,7,8-hexabromdibenzo-p-dioxin	110999-44-5	5	≤ 5
22	1,2,3,6,7,8-hexabromodibenzo-p-dioxin	110999-45-6		
23	1,2,3,7,8-pentabromodibenzofuran	107555-93-1		
24	1,2,3,7,8,9-hexabromodibenzo-p-dioxin	110999-46-7		

Appendix 7: Flame Retardants		Short form	CAS No.
1	Bis-(2,3-dibromopropyl ether) of tetrabromobisphenol	BDBPT	21850-44-2
2	Bis-(2,3-dibromopropyl)phosphate	BIS	5412-25-9
3	Decabromodiphenylether	DecaBDE	1163-19-5
4	Heptabromodiphenylether	HeptaBDE	various
5	Hexabromocyclododecane	HBCDD	25637-99-4
6	Hexabromodiphenylether	HexaBDE	36483-60-0
7	Octabromodiphenylether	OctaBDE	32536-52-0
8	Pentabromodiphenylether	PBDE	32534-81-9
9	Nonabromodiphenylethers	NonaBDE	various
10	Polybrominated Biphenyls (hexa-)	PBB	59536-65-1
11	Tetrabromobisphenol A	TBBPA	79-94-7
12	Tetrabromodiphenylether	TetraBDE	5436-43-1
13	Tri(aziridin-1-yl)phosphine oxide	TEPA	5455-55-1
14	Tris-(chloroisopropyl)phosphate	TCPP	13674-84-5
15	Tris-(1,3-dichloro-2-propyl)phosphate	TDCPP	13674-87-8
16	Tris-(2-chloroethyl)phosphate	TCEP	115-96-8
17	Tris-(2,3-dibromopropyl)phosphate	TRIS - TDBPP	126-72-7
18	2,2-Bis(bromomethyl)-1,3-propanediol	BBMP	3296-90-0
19	2-Ethylhexyl-2,3,4,5-tetrabromobenzoate	TBB	183658-27-7
20	Bis(2-ethylhexyl)-2,3,4,5-tetrabromophtalate	TBPH	26040-51-7
21	Dibromobiphenyls	DiBB	various
22	Tribromobiphenyls	TriBB	various
23	Tetrabromobiphenyls	TetraBB	various
24	Pentabromobiphenyls	PentaBB	various
25	Heptabromobiphenyls	HeptaBB	various
26	Octabromobiphenyls	OctaBB	various
27	Nonabromobiphenyls	NonaBB	various
28	Decabromobiphenyl	DeacaBB	13654-09-6

Appendix 8: Forbidden Aryl amines		Index No.	CAS No.
1	Benzidine	612-042-00-2	92-87-5
2	Biphenyl-4-ylamin; 4-aminobiphenyl; xenylamine	612-072-00-6	92-67-1
3	o-aminoazotoluene; 4-amino-2',3-dimethylazobenzene; 4-o-tolylazo-otoluidine	611-006-00-3	97-56-3
4	o-anisidine; 2-methoxyaniline	612-035-00-4	90-04-0
5	o-toluidine; 2-aminotoluene	612-091-00-X	95-53-4
6	2,4-xylidine		95-68-1
7	2,4,5-trimethylaniline		137-17-7
8	2,6-xylidine		87-62-7
9	2-naphtylamine	612-022-00-3	91-59-8
10	3,3'-dichlorobenzidine; 3,3'-dichlorobiphenyl-4; 4'-ylenediamine	612-068-00-4	91-94-1
11	3,3'-dimethoxybenzidine; o-dianisidine	612-036-00-X	119-90-4
12	3,3-dimethylbenzidine; 4,4'-bi-o-toluidine	612-041-00-7	119-93-7
13	4,4'-methylenedianiline; 4,4'-diaminodiphenylmethane	612-051-00-1	101-77-9
14	4,4'-methylenedi-o-toluidine	612-085-00-7	838-88-0
15	4,4'-metylene-bis (2-chloro-aniline); 2,2'-dichloro-4,4'-methylenedianiline	612-078-00-9	101-14-4
16	4,4'-oxydianiline		101-80-4
17	4,4'-thiodianiline		139-65-1
18	4-amino azobenzene	611-008-00-4	60-09-3
19	4-chloroaniline		106-47-8
20	4-chloro-o-toluidine		95-69-2
21	4-methoxy-m-phenylenediamine		615-05-4
22	4-methyl-m-phenylenediamine	612-099-00-3	95-80-7
23	5-nitro-o-toluidine		99-55-8
24	6-methoxy-m-toluidine; p-cresidine		120-71-8
25	chloro-o-toluidinium chloride		3165-93-3
26	2-Naphthylammoniumacetate		553-00-4
27	4-methoxy-m-phenylene diammonium sulphate		39156-41-7
28	2,4,5-trimethylaniline hydrochloride		21436-97-5

Appendix 9: Mercury compounds		CAS No.
1	Phenylmercury acetate	62-38-4
2	Phenylmercury neodecanoate	26545-49-3
3	Phenylmercury octanoate	13864-38-5
4	Phenylmercury propionate	103-27-5
5	Phenylmercury 2-ethylhexanoate	13302-00-6

Appendix 10: Navy Blue		CAS No.
1	Navy Blue	118685-33-9

Appendix 11: N-nitrosamines		CAS No.
1	N-nitrosodiethylamine	55-18-5
2	N-nitrosodibutylamine	924-16-3
3	N-nitrosodimethylamine	62-75-9
4	N-nitrosodipropylamine	621-64-7
5	N-nitrosomorpholine	59-89-2
6	N-nitroso-N-ethylaniline	612-64-6
7	N-nitroso-N-methylaniline	614-00-6
8	N-nitrosopiperidine	100-75-4
9	N-nitrosopyrrolidine	930-55-2

Appendix 12: Nonylphenolethoxylates (NPEO) - Octylphenolethoxylates (OPEO)		CAS No.
1	Nonylphenol Ethoxylates NPEO (1-2)	Various
2	Nonylphenol Ethoxylates NPEO (3-18)	Various
3	Octylphenol Ethoxylates OPEO (1-2)	Various
4	Octylphenol Ethoxylates OPEO (3-18)	Various
5	Unbekanntes Farbmittel 94 (SIN list)	37205-87-1
6	4-Nonylphenyl-polyethylene glycol	9016-45-9
7	Polyoxyethylene nonylphenylether, branched (NPEs 3-18)	68412-54-4
8	Polyoxyethylene t-octylphenyl ether (OPEs 3-18)	9002-93-1
9	4-Nonylphenol, branched, ethoxylated	127087-87-0
10	4-Nonylphenol, ethoxylated	26027-38-3
11	Octylphenolethoxylate, branched	68987-90-6
12	Octylphenolethoxylate, branched	9036-19-5

Appendix 13: Nonylphenols (NP) - Octylphenols (OP)		CAS No.
1	Nonylphenol	104-40-5
2	Nonylphenol, branched	90481-04-2
3	Nonylphenol NP	Various
4	Octylphenol, branched	27193-28-8
5	Octylphenol OP	Various
6	4-Nonylphenol (various, branched and linear)	25154-52-3
7	4-Nonylphenol, branched	84852-15-3
8	4-Octylphenol (linear)	1806-26-4
9	4-(1,1,3,3-Tetramethylbutyl)-phenol; 4-(t-Octyl)phenol	140-66-9

Appendix 14: Organotin compounds		Short form
1	Dibutyltin	DBT
2	Dimethyltin	DMT
3	Dioctyltin	DOT
4	Diphenyltin	DPhT
5	Dipropyltin	DPT
6	Monobutyltin	MBT
7	Monomethyltin	MMT
8	Monooctyltin	MOT
9	Monophenyltin	MPhT
10	Tetrabutyltin	TeBT
11	Tetraethyltin	TeET
12	Tetraoctyltin	TeOT
13	Tributyltin	TBT
14	Tributyltin oxide	TBTO
15	Tricyclohexyltin	TCyHT
16	Trimethyltin	TMT
17	Trioctyltin	TOT
18	Triphenyltin	TPhT
19	Tripropyltin	TPT

Appendix 15: Pesticides		CAS No.
1	Aldrine	309-00-2
2	Azinophosetyl	2642-71-9
3	Azinophosmethyl	86-50-0
4	Bromophos-ethyl	4824-78-6
5	Captafol	2425-06-1
6	Carbaryl	63-25-2
7	Chlordane	57-74-9
8	Chlordimeform	6164-98-3
9	Chlorphenvinphos	470-90-6
10	Coumaphos	56-72-4
11	Cyfluthrin	68359-37-5
12	Cyhalothrin	91465-08-6
13	Cypermethrin	52315-07-8
14	DDD	53-19-0, 72-54-8
15	DDE	3424-82-6, 72-55-9
16	DDT	50-29-3, 789-02-6
17	DEF	78-48-8
18	Deltamethrin	52918-63-5
19	Diazinon	333-41-5
20	Dichlorprop	120-36-5
21	Dicrotophos	141-66-2
22	Dieldrin	60-57-1
23	Dimethoate	60-51-5
24	Dinoseb and salts	88-85-7
25	DTTB	57648-21-2

26	Endosulfan (α)	959-98-8
27	Endosulfan (β)	33213-65-9
28	Endrine	72-20-8
29	Esfenvalerat	66230-04-4
30	Fenvalerate	51630-58-1
31	Heptachlor	76-44-8
32	Heptachlorepoxide	1024-57-3
33	Hexachlorobenzene	118-74-1
34	α-Hexachlorcyclohexane	319-84-6
35	β-Hexachlorcyclohexane	319-85-7
36	δ-Hexachlorcyclohexane	319-86-8
37	Lindane (g-HCH)	58-89-9
38	Malathion	121-75-5
39	MCPA	94-74-6
40	MCPB	94-81-5
41	Mecroprop	93-65-2
42	Metamidophos	10265-92-6
43	Methoxychlor	72-43-5
44	Mirex	2385-85-5
45	Monocrotophos	6923-22-4
46	Parathion	56-38-2
47	Parathion-methyl	298-00-0
48	Permethrin	52645-53-1
49	Phosdrin/Mevinphos	7786-34-7
50	Profenophos	41198-08-7
51	Propethamphos	31218-83-4
52	Quinalphos	13593-03-8
53	Toxaphen (Camphechlor)	8001-35-2
54	Trifluralin	1582-09-8
55	2,4,5-T	93-76-5
56	2,4-D	94-75-7
57	Dicofol	115-32-2
58	Chlordecone (Kepone)	143-50-0

Appendix 16-1: PFOA and related substances	Substance	Short form	CAS No.
PFOA	Perfluorooctanoic Acid	PFOA	335-67-1
Salts (examples)	Ammonium perfluorooctanoate	APFO	3825-26-1
	Sodium perfluorooctanoate		335-95-5
	Potassium perfluorooctanoate		2395-00-8
	Perfluorooctanoic acid, silver salt		335-93-3
	Ethanaminium, N,N,N-triethyl-, salt with perfluorooctanoic acid (1:1)		98241-25-9
PFOA related substances	8:2 Fluorotelomer alcohol	8:2 FTOH	678-39-7
	8:2 Fluorotelomer acrylate	8:2 FTAC	27905-45-9
	8:2 Fluorotelomer methacrylate	8:2 FTMAC	1996-88-9
	8:2 Fluorotelomer phosphate monoester	8:2 monoPAP	57678-03-2
	8:2 Fluorotelomer phosphate diester	8:2 diPAP	678-41-1
	Polyfluorinated silanes	C8-PFSi	various (i.e. 3102-79-2)
	Perfluorooctyl phosphonic acid	C8-PFPA	40143-78-0
	Polyfluorinated iodide	8:2 FTI	2043-53-0
	Perfluorooctyl iodide	PFOI	507-63-1
	Perfluorooctanoyl fluoride		335-66-0
	Methyl perfluorooctanoate		376-27-2
	Ethyl perfluorooctanoate		3108-24-5

Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds are defined in POP Regulation (2019/1021) as the following: perfluorooctanoic acid, including any of its branched isomers, its salts and PFOA-related compounds which are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoro heptyl group with the moiety (C_7F_{15})-C as one of the structural elements.
The following compounds are not included as PFOA-related compounds:

- C_8F_{17}-X, dove 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.

Appendix 16-2: PFOS	Substance	Short form	CAS No.
PFOS	Perfluorooctane sulfonic acid		335-67-1
	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-ethylperfluoro-1-octanesulfonamide	EtFOSA	4151-50-2
	N-methylperfluoro-1-octanesulfonamide	MeFOSA	31506-32-8
	2-(N-ethylperfluoro-1-octanesulfonamido-ethanol	EtFOSE	1691-99-2
	2-(N-metilperfluoro-1-octansulfonamido)-ethanol	N-MeFOSE	24448-09-7
	Perfluorooctanesulfonyl fluoride		307-35-7

Perfluorooctane sulfonic acid and its derivatives (PFOS) are defined in POP Regulation (2019/1021) as the following:

- $C_8F_{17}SO_2X$, where X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers.

Appendix 16-3: Short chain PFAS	Substance	Short form	CAS No.
Perfluorobutane sulfonic acid and its salts	Perfluorobutane-1-sulphonic acid	PFBS	375-73-5
	Perfluorobutane-1-sulphonate salts		various
Perfluorohexane-1-sulphonic acid and its salts	Perfluorohexane-1-sulphonic acid	PFHxS	355-46-4
	Perfluorohexane-1-sulphonate salts		various
Perfluoro-2-methyl-3-oxahexanoic acid, its salts and its acyl halides	Perfluoro-2-methyl-3-oxahexanoic acid		13252-13-6
	Perfluoro-2-methyl-3-oxahexanoate salts and halides		various
All perfluoroalkyl substances with short chain (less than six carbon atoms in the perfluoro section of the molecule) listed in the Candidate List of SVHC. The above list is not exhaustive.			

Appendix 16-4: Long chain PFAS	Substance	Short form	CAS No.
Long chain perfluoroalkyl acids (C_9-C_{14})	Perfluorononanoic acid	PFNA	375-95-1 / 21049-39-8 / 4149-60-4
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUdA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrA	72629-94-8
	Perfluorotetradecanoic acid	PFTA	376-06-7
Long chain perfluoroalkyl related substances (C_9-C_{14})	1H,1H,2H,2H-Perfluoro-1-Dodecanol	10:2 FTOH	865-86-1
	2H,2H,3H,3H- Perfluoroundecanoic acid	H4PFUnA	34598-33-9
	1H,1H,2H,2H- Perfluorododecylacrylate	10:2 FTA	17741-60-5
	Perfluoro-3,7-dimethyloctanoic Acid	PF-3,7-DMOA	172155-07-6
	1H,1H,2H,2H-perfluoro-1-dodecanesolfonate	10:2 FTS	108026-35-3
	1H,1H,2H,2H-Perfluorodecan-solfonate	8:2 FTS	39108-34-4
	Perfluorodecansulphonic acid	PFDS	335-77-3 / 2806-15-7 / 2806-16-8 / 67906-42-7
	Perfluorononansulphonic acid	PFNS	35192-74-6 / 29359-39-5 / 17202-41-4
	Perfluorododecansulphonic acid	PFDoS	

C_9-C_{14} linear and/or branched perfluorocarboxylic acids (C_9-C_{14} PFCAs), their salts and C_9-C_{14} PFCAs-related substances defined in REACH Regulation (1907/2006) Entry 68:

- Linear and branched perfluorocarboxylic acids of the formula C_nF_{2n+1}-C(= O)OH where n = 8, 9, 10, 11, 12, or 13 (C_9-C_{14} PFCAs), including their salts, and any combinations thereof;
- Any C_9-C_{14} 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 C_9-C_{14} 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.

The following substances are excluded from this designation:

- 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.

Appendix 17: Phthalates		Short form	CAS No.
1	BenzylButylphthalate	BBP	85-68-7
2	Dibutylphthalate	DBP	84-74-2
3	Diisobutyl phthalate	DIBP	84-69-5
4	Di-iso-decylphthalate	DIDP	26761-40-0 68515-49-1
5	Di-iso-nonylphthalate	DINP	28553-12-0 68515-48-0
6	Di-pentylphtalate (n-, iso- or mixed)	DPP	131-18-0 605-50-5 776297-69-9 84777-06-0
7	Di-(2-ethylhexyl)phthalate	DEHP	117-81-7
8	Di-(2-methoxyethyl)phthalate	DMEP	117-82-8
9	Di-n-octylphthalate	DNOP	117-84-0
10	Di-n-hexylphthalate	DHP-DnHP	84-75-3
11	1,2-benzendicarboxilic acid, di C6-8 branched alkyl esters C7 rich	DIHP	71888-89-6
12	1,2-benzendicarboxilic acid, di C7-11 branched and linear alkyl esters C7 rich	DHNUP	68515-42-4

Appendix 18: Polychlorobiphenyls		CAS No.
1	2,4,4’-trichlorobiphenyl (PCB 28)	7012-37-5
2	2,2’,5,5’-tetrachlorobiphenyl (PCB 52)	35693-99-3
3	3,3’,4,4’-tetrachlorobiphenyl (PCB 77)	32598-13-3
4	3,4,4’,5-tetrachlorobiphenyl (PCB 81)	70362-50-4
5	2,2’,4,5,5’-pentachlorobiphenyl (PCB 101)	37680-73-2
6	2,3,3’,4,4’-pentachlorobiphenyl (PCB 105)	32598-14-4
7	2,3,4,4’,5-pentachlorobiphenyl (PCB 114)	74472-37-0
8	2,3’,4,4’,5-pentachlorobiphenyl (PCB 118)	31508-00-6
9	2’,3,4,4’,5-pentachlorobiphenyl (PCB 123)	65510-44-3
10	3,3’,4,4’,5-pentachlorobiphenyl (PCB 126)	57465-28-8
11	2,2',3,4,4',5’-hexachlorobiphenyl (PCB 138)	35065-28-2
12	2,2',4,4',5,5’-hexachlorobiphenyl (PCB 153)	35065-27-1
13	2,3,3’,4,4’,5-hexachlorobiphenyl (PCB 156)	38380-08-4
14	2,3,3’,4,4’,5’-hexachlorobiphenyl (PCB 157)	69782-90-7
15	2,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 167)	52663-72-6
16	3,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 169)	32774-16-6
17	2,2’,3,4,4’,5,5’-heptachlorobiphenyl (PCB 180)	35065-29-3
18	2,3,3’,4,4’,5,5’-heptachlorobiphenyl (PCB 189)	39635-31-9

Appendix 19: Polychloronaphthalenes		CAS No.
1	2-chloronaphthalene	91-58-7
2	1,2-dichloronaphthalene	20250-69-3
3	1,2,3-trichloronaphthalene	50402-52-3
4	1,2,3,4-tetrachloronaphthalene	20020-02-4
5	1,2,3,5,7-pentachloronaphthalene	53555-65-0
6	1,2,3,4,5,6-hexachloronaphthalene	58877-88-6
7	1,2,3,4,5,6,7-heptachloronaphthalene	58863-14-2
8	Octachloronaphthalene	2234-13-1

Appendix 20: Polycyclic Aromatic Hydrocarbons (IPA - PAH)		Short form	CAS No.
1	Acenaphthene		83-32-9
2	Acenaphthylene		208-96-8
3	Anthracene		120-12-7
4	Benzo[a]anthracene	BaA	56-55-3
5	Benzo[a]pyrene	BaP	50-32-8
6	Benzo[b]fluoranthene	BbFA	205-99-2
7	Benzo[e]pyrene	BeP	192-97-2
8	Benzo[ghi]perylene		191-24-2
9	Benzo[k]fluoranthene	BkFA	207-08-9
10	Benzo[j]fluoranthene	BjFA	205-82-3
11	Chrysene	CHR	218-01-9
12	Dibenzo[a,h]anthracene	DBAhA	53-70-3
13	Fluoranthene		206-44-0
14	Fluorene		86-73-7
15	Indeno[1,2,3-cd]pyrene		193-39-5
16	Naphthalene		91-20-3
17	Phenanthrene		85-01-8
18	Pyrene		129-00-0

Appendix 21: Siloxsanes		CAS No.
1	Octamethylcyclotetrasiloxane (D4)	556-67-2
2	Decamethylcyclopentasiloxane (D5)	541-02-6
3	Dodecamethylcyclohexasiloxane (D6)	540-97-6

Appendix 22: Solvents	Unit	Substance	CAS No.	Requirements	Test method reference
Chlorinated Solvents	mg/kg	α-Chlorotoluene	100-44-7	≤ 1	DIN 54232
	mg/kg	Methylene chloride	75-09-2	≤ 50 (sum)	GB 19340 "Extraction HS - SPME or Purge & Trap and Analysis by GC-MS"
	mg/kg	Trichloroethylene	79-01-6		
	mg/kg	1,2 Dichloroethane	107-06-2		
	mg/kg	1,1,2 Trichloroethane	79-00-5		
	mg/kg	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	
Volatile Organic Compound (VOC)	mg/kg	Benzene	71-43-2	≤ 5	
	mg/kg	Methyl Alcohol	67-56-1	≤ 1000	
	mg/kg	N-exane	110-54-3	≤ 150	
	mg/kg	Toluylen diisocyanate (free)	26471-62-5	≤ 10	
	mg/kg	Toluene	108-88-3	≤ 200	
Other Solvents	mg/kg	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	Solvent extraction and Analysis by GC-MS/LC-MS
	mg/kg	Dimethylformamide (DMF)	68-12-2	≤ 200	ISO/TS 16189
	mg/kg	Acetophenone	98-86-2	≤ 50	EPA 5021A + EPA 8260D
	mg/kg	2-phenylpropan-2-ol	617-94-7	≤ 50	EPA 5021A + EPA 8260D
	mg/kg	Formamide	75-12-7	≤ 1000	Solvent extraxtion, GC-MS or LC-MS analysis

Appendix 23: UV-Stabilizers		Short form	CAS No.
1	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	UV 350	36437-37-3
2	2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol	UV 328	25973-55-1
3	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	UV 327	3864-99-1
4	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol	UV 320	3846-71-7