Restricted Substances List

VOICE Norge AS

Revision May 2025

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VOICE Norge AS includes the following chains and brands:

- VIC (VESBAR, BLU, MELLOWFIELD)
- MATCH MEN (ALVO, MARIO CONTI, REDFORD)
- MATCH WOMEN (DONNA, MARIE PHILIPPE, VA VITE)
- BOYS OF EUROPE (HENRY CHOICE, MR. CAPUCHIN, WOS NOT WOS)
- JEAN PAUL (JEAN PAUL MEN, JEAN PAUL WOMEN)

1.0 GENERAL INFORMATION

VOICE Norge AS' Restricted Substances List consists of four sections: General information – this section, explanatory section, List of Restricted chemicals in products and packaging, and Appendixes for substances in some individual groups of chemicals.

The European Commission published a chemicals strategy for sustainability towards toxic-free environment on 14 October 2020. It is part of the EU's zero pollution ambition, which is a key commitment of the European Green Deal.

Objectives of this strategy:

- Better protect citizens and the environment
- Bost innovation for safe and sustainable chemicals

Some of the major actions of the strategy are:

- Banning the most harmful chemicals in consumer products, only allowing their use where essential and no toxic-free alternatives found
- Boosting the use and production of the chemicals that are safe and sustainable by design, and throughout their life cycle.
- Phasing out the use of PFAS (per- and polyfluoroalkyl substances unless their use is absolutely essential.

The strategy outlines over 80 actions and sets an indicative timing for their implementation. The European Commission provides a regular update of the state of implementation of the actions. More information can be found here (https://environment.ec.europa.eu/strategy/chemicals-strategy/implementation_en).

The requirements and concentration limits in the restricted substances list are based on EU's legal regulations, Norwegian national legal regulations, and particularly based on those objectives.

Guidelines for implementation of the Chemicals Strategy:

Each limit in VOICE Norge AS' Chemical Substances List is valid for homogeneous parts of the concerned product, i.e., all details of the products (including main materials, textile trims, non-textile accessories which attached, printed and/or sewn onto the products) must comply with VOICE Norge AS' Restricted Substances List. Individual restricted substances with CAS RN are specified in the Appendixes.

The newest test standards and test methods should be applied when conducting chemical testing. The supplier has the responsibility to inform the testing laboratory to follow the instructions specified in the Test Request Form from VOICE.

2.0 EXPLANATORY SECTION

Limit value:	Limit value as agreed in business sector and or by legal requirements. Note that the limit value is measured in products. Weight per cent shall

	be calculated from the weight of the whole product if nothing else is stated.
CAS RN:	Chemical abstract services registration number. CAS RN is given for specific defined substances.
Test method:	Standardised test method if such exists. ISO/EN standards are prioritized over national or commercial standards. Test equipment if no standardized test method exists.
Detection limit (DL):	Limit of detection (LOD). Lowest concentration the test equipment can detect. This can vary between different test laboratories. Note that detection limit is not as relevant as required limit values for all substances as the background concentrations can be notably higher.
Limit of quantification (LOQ):	The smallest concentration of an analyte that can be reliably measured by an analytical procedure.
Packaging material:	According to Directive (EC) No 94/62/EC of 20 December 1994 on packaging and packaging waste. The directive regulates substances in packaging material, meaning all products made of any materials of any nature to be used for the containment, protection, handling, delivery and presentation of goods, from raw materials to processed goods, from the producer to the user or the consumer.

Relationship between units used in this document:

1000 mg/kg equals:	1000 ppm (parts per million, also expressed as milligrams per litre – mg/L) 1 000 000 ppb (parts per billion) 1 000 000 µg/kg (microgram per kilogram) 0.1% (by weight) x µg/m2: x depends on the thickness of the fabric (kg/m2) x µg/cm2/week x is a measure of the release of a substance from a surface and is only partially dependent on the concentration of the substance.

Relationship between surface concentration and weight concentration

- Re-calculate fabric weight into kilograms in square meter (that is, kg/m^2)
    - For example: 100g/m2 (gsm) is equal to 0.1kg/m2
    - If fabric weight is stated in grams per running meter, it needs to be converted into grams per square meter before re-calculation from grams per square meter into kilograms per square meter.
- Formula to use for converting from surface concentration to weight concentration
    - $\frac{mcg}{m2} \div \frac{kg}{m2} = \frac{mcg}{m2} \times \frac{m2}{kg} = \frac{mcg}{kg}$, mcg is microgram (µg) and mcg/kg is equal to ppb.
- Formula to use for converting from weight concentration to surface concentration
    - $\frac{mcg}{kg} \times \frac{kg}{m2} = \frac{mcg}{m2}$, where mcg = µg, and $\frac{mcg}{kg}$ = ppb

Test equipment abbreviations

Analysis of organic compounds

- Gas chromatography: GC
    - Detectors used together with GC:
        - MS: Mass selective detector: GC-MS
        - DAD: Diode array detector: GC-DAD
        - ECD: Electron capture detector: GC-ECD
- Liquid chromatography: LC
    - Note: sometimes the abbreviation HPLC is used: High Performance Liquid Chromatography.
    - Detectors used with LC:
        - MS: Mass selective detector: HPLC/LC-MS
        - DAD: Diode array detector: HPLC/LC-DAD
        - ECD: Electron capture detector: HPLC/LC-ECD
        - UV/VIS: Ultraviolet/Visible Spectrophotometric detector: HPLC/LC-UV/VIS

Analysis of metals:

- Inductively Coupled Plasma Spectrometry: ICP
    - Detectors together with ICP:
        - OES: Optical emission spectrometer: ICP-OES
        - MS: Mass selective detector: ICP-MS
    - Atomic Absorption Spectrophotometer: AAS

Screening analysis of elements:

- X-ray fluorescence: XRF

3.0 LIST OF RESTRICTED SUBSTANCES IN TEXTILES, LEATHER/IMITATION LEATHER, ACCESSORIES & PACKAGING

Family of chemical substances:	CAS RN.:	VOICE requirement:	Test methods & Limit of quantification (LOQ)
AP and APEO (NPEO, OPEO) Alkylphenols (AP), Alkylphenol ethoxylates (APEO) and derivatives, incl Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO) Process chemicals used in textiles and leather/imitation leather			
AP & APEO (NPEO, OPEO)	Various – See ***Appendix A***	< 10 mg/kg for total sum of APs < 100 mg/kg (0.01% by weight) for total sum of APs & APEOs (all materials) < 100 mg/kg (total AP/APEO for packaging only) Same requirements for all recycled materials (either pre-consumer or post-consumer)	EN ISO 18254 (textile) APEO; EN ISO 21084 (textile) AP; EN ISO 18218 (leather) LOQ: 3 mg/kg for total of NP + OP LOQ: 10 mg/kg for total of NPEOs + OPEOs
Biocidal agents Biocides, fungicides and insecticide are used both as process chemicals and as product related chemicals in textiles, leather/imitation leather, accessories and packaging materials.			
Bactericides Used in textiles and leather.			
Silver (Ag) and its compounds	Various CAS RN – See ***Appendix F*** 7440-22-4 (metal)	Not Detected	No standard test method available. Test equipment: ICP-MS, ICP-OES or AAS. LOQ: 10 mg/kg
Triclosan and Triclocarban OPP – Ortho-phenylphenol	3380-34-5 (Triclosan) 101-20-2 (Triclocarban) Both are banned in PT9 (textiles, leather & polymers) 90-43-7 (OPP)	Not Detected	EN 17134-1 (textile) ISO 22992-2 (textile) Test equipment: GC-MS, LC-MS. LOQ: 10 mg/kg (OPP & triclosan in textile materials)
Trisubstituted tin organic compounds	Various CAS RN – See ***Appendix F***	Not Detected	EN ISO 22744-1/-2(textile) EN ISO/TS 16179 (footwear) Test equipment: GC, LC, GC-MS. EN ISO 17353 (water and sediment) LOQ: 0.2 mg/kg each
Zincpyrithion	13463-41-7	Not Detected	No standard test method available. Test equipment: GC-MS, LC-MS. LOQ: 1000 mg/kg (100 mg/kg via Zinc)
Biocides Used in textiles and leather.			
Glutaral	111-30-8 SVHC	Not Detected	No standardized test method available. Test equipment: LC-UV, GC-UV LOQ: -
Guanidine, N,N'''-1,6-hexanediylbis[N'-cyano-, polymer with 1,6-hexanediamine, hydrochloride (**PHMB 1600**; 1.8)	27083-27-8, 32289-58-0 Banned in PT9 (textiles, leather & polymers) – Biocidal Product Regulation (EU 528/2012)	Not Detected	No standard test method available. Test equipment: LC-MS LOQ: -
Fungicides and pesticides– used in materials for storage and transport Used in textiles and leather.			
Cu-HDO – Bis-(N-cyclohexyldiazeniumdioxy)-copper	312600-89-8 Banned in PT9 (textiles, leather & polymers)	Not Detected	No standard test method available. Test equipment: ICP-AES LOQ: 50 mg/kg
DMFu – Dimethylfumarate	624-49-7	Not Detected	SS-EN 17130 (textile & textile material) EN ISO 16186 (footwear) Test equipment: GC-MS, LC-MS LOQ: 0.1 mg/kg.
Parabens – Butyl 4-hydroxybenzoate (Butylparaben); Isobutyl 4-hyroxybenzoate	94-26-8 SVHC 4247-02-3 SVHC	Not Detected	No standardized test method for textiles and leather Test equipment: GC-MS, LC-MS LOQ: 100 mg/kg

PCP and all isomers of **TeCP** – Pentachlorophenol (PCP) Tetrachlorophenols (TeCP) Trichlorophenols (TriCP)	87-86-5 (PCP), 131-52-2 (PCP sodium salt), 935-95-5, 4901,51-3, 58-90-2 (isomers of TeCP) PCP and its salts & esters are banned in Norway in textiles and leather. Other CAS RN – See ***Appendix F***	Not Detected	EN 17134-2 (textiles) ISO 17070 (leather) EN ISO 22517 (pesticide residues in leather products) XP G 08-015 (French standard method for PCP in textiles). LOQ: 0.1 mg/kg CEN/TR 14823 (wood). Detection limit 25 mg/kg EN ISO 15320 (Pulp, paper and board)
Other chlorophenols & biocidal agents	Various CAS RN – See ***Appendix F***	Not Detected	
Insecticides Used in textile and leather.			
Permethrin	52645-53-1	Not Detected	prEN 17134-3 (textiles). EN ISO 22517 (pesticide residues in leather) Test equipment: GC-MS, LC-MS. LOQ: 5 mg/kg
Pesticides and Herbicides – Agriculturally related Can be found in natural fibers, primarily cotton			
Agriculturally used Pesticides and Herbicides	Various CAS RN – See ***Appendix O***	< 0.1 mg/kg each	All materials content natural fibers: EN ISO 15913 or EPA 8081/EPA8151A or BVL L 00.00-34:2010-09 LOQ: 0.1 mg/kg each

Bisphenols Process chemicals used in accessories and packaging – hardener, production of PC epoxy resin, thermal prints, etc. BPA content >=0.02% by weight (200 mg/kg) in thermal paper, is restricted in REACH Annex XVII, Entry 66.			
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6 SVHC	Not Detected	Textile: No standard test method available Leather: EN ISO 11936 Test equipment LC-MS, GC-MS LOQ: BPA (textiles and leather): 10 mg/kg each BPB, BPF, BPS: Textiles: 200 mg/kg each Leather: 800 mg/kg each
BPA, Bisphenol A (4,4'-isopropylidenediphenol)	80-05-7 SVHC		
BPB, Bisphenol B (4,4'-(1-methylpropylidene)bisphenol)	77-40-7 SVHC		
BPF, Bisphenol F (4,4'-methylenediphenol)	620-92-8 (SVHC proposed)		
BPS, Bisphenol S (4,4'-sulphonyldiphenol)	80-09-1 SVHC		

Blowing Agents/Foaming Agents Process chemicals. ADCA used in accessories as blowing agent in production of rubber, plastics, EVA, PVC, etc. Hydrazine is also blowing agent in production of polymer foams in accessories and packaging. A-Phenyl-2-Propanol and Acetaphenone are potential breakdown products in EVA form when using certain cross-linking agents, including Dicumyl Peroxide.			
2-Phenyl-2-Propanol	617-94-7	50 mg/kg each	Extraction in acetone or methanol GC/MS, sonication for 30 minutes at 60° C LOQ: 25 mg/kg each
Acetophenone	98-86-2		
ADCA (C,C'-azodi(formamide)); Azodicarbonamide; Azodiformamide	123-77-3 SVHC	Not Detected	No standard test method available for textiles. Test equipment: GC-MS LOQ: 200 mg/kg
Hydrazine	302-01-2, 7803-57-8 Both are listed in SVHC list	Not Detected	No standard test method available for textiles. Test equipment: UV-VIS Spectrometer (LOQ: --) Test equipment: GC-MS (LOQ: 200 mg/kg)

Color dyes and pigments			
Allergenic dyes Product related chemicals used in textiles and imitation leather – dyeing of synthetic fibers and blended fibers. Those disperse dyes are mainly used in polyester, acetate, polyamide.			
Allergenic disperse dyes	Various – See ***Appendix E***	Not Detected	EN ISO 16373 (extractable dyestuff). LOQ: 30 mg/kg each

Azo dyes and colorants which by reductive cleavage, may release one or more arylamines Product related chemicals used in textiles, leather/imitation leather, accessories and packaging. Azo dyes and pigments are colorants that incorporate one or several azo groups (-N=N-) bound with aromatic compounds. Thousands of azo dyes exist, but only those which degrade to form listed amines are restricted.			
Banned arylamines related to azo dyes	Various – See ***Appendix C***	Not Detected	Textile: EN ISO 14362-1/-3 Leather: EN ISO 17234-1/2 (Methods specified in REACH Annex XVII, Appendix 10) LOQ: 20 mg/kg (per each of the arylamine breakdown products)
Carcinogenic dyestuffs Product related chemicals used in textiles, leather/imitation leather, accessories and packaging.			
CMR – Carcinogenic, Mutagenic, Reproductive toxic dyestuffs	Various CAS RN – See ***Appendix D***	Not Detected	EN ISO 16373 (extractable dyestuffs) LOQ: 30 mg/kg

EDA – Ethylene diamine Process chemicals used in imitation leather and accessories – production of PU fibers, etc.			
EDA (Ethylene diamine)	107-15-3 SVHC	Not Detected	No standard test method available. Test equipment: GC-MS, LC-MS LOQ: 100 mg/kg

Ethylene thiourea Process chemicals used in accessories – production of rubber, etc.			
Ethylene thiourea; Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7 SVHC	Not Detected	No standard test method available. Test equipment: LC-MS LOQ: 20 mg/kg

Flame retardants			
Flame retardants in plastics Product-related chemicals used in textiles, leather, accessories and packaging. Chloroparaffins are used as flame retardant and plasticizers in plastic and rubber materials, in coated synthetic/fake leather, and as fat liquoring agent in leather production. Dechlorane ™ Plus is another flame retardant for plastics, is also used in adhesives, sealants and in binding agents.			
LCCP (C18-) - Long-chain Chloroparaffins	85535-86-0	Not Detected	EN ISO 22818 (textiles) ISO 18219-1/-2 (leather). Test equipment: GC-MS or LC-MS or GC-NCI-MS (Organic solvent extraction for textile) LOQ: 100 mg/kg (textiles)
MCCP (C14-C17) - Medium-chain Chloroparaffins	85535-85-9, 198840-65-2, 1372804-76-6 All CAS RNs are listed in SVHC list		
SCCP (C10-C13) - Short-chain Chloroparaffins	85535-84-8 SVHC/POP		
Dechlorane ™ Plus (1,6,7,8,9,14,15,16,17,17,18,18 Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene)	13560-89-9, 135821-74-8, 135821-03-3 All CAS RNs are listed in SVHC list	Not Detected	No standardized test method available. Test equipment: GC-MS, LC-MS, GC-ECD, (XRF to detect chlorine). LOQ: 100 mg/kg
Other Flame retardants Product related chemicals used in textiles, leather/imitation leather, accessories and packaging. Boric acid, borate compounds are used in packaging. HBCD/HBCDD are used in textiles and packaging, PBB, PBDE, TBPP and TCEP are used widely in textiles, leather/imitation leather, accessories and packaging. Trixylyl phosphate is mainly used in accessories and packaging, and it is also a plasticizer in production of PU and PVC.			
Boric acid, borate compounds	Various – See ***Appendix G***	Not Detected	Test equipment: AAS, ICP-MS and ICP-OES LOQ: 25 mg/kg (for each), 10 mg/kg for total Boron content)
HBCD, **HBCDD** – Hexabromocyclododecane	Various – See ***Appendix G***	Not Detected	EN ISO 17881-1 (textiles). Test equipment: GC-MS, LC-MS, GC-ECD LOQ: 20 mg/kg
TBPH – Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7 SVHC	Not Detected	No standardized test method Test equipment: GC-MS, LC-MS, GC-ECD, XRF to detect bromine) LOQ: 100 mg/kg
PBB & **PBDE** – Polybrominated biphenyls & Polybrominated diphenyl ethers – used in textiles,	Various – See ***Appendix G***	Not Detected	EN ISO 17881-1 (textiles) EN 16377 for PBB (plastics)

leather/imitation leather, accessories and packaging			Test equipment: GC-MS, LC-MS, GC-ECD. LOQ: 10 mg/kg
TBPP, **TCEP, TCPP, TDCPP** – Tris(2,3-dibromoprophyl) phosphate), Tris(2-chlorethyl) phosphate, tris(1-chloro-2-propyl) phosphate, Tris(1,3-dichloro-2-proplyl) phosphate	TBPP: 126-72-7 (banned > 5mg/kg Annex XVII, entry 4), TCEP: 115-96-8 SVHC TCPP: 13674-84-5 TDCPP: 13674-87-8	Not Detected	EN ISO 17881-2 (textiles) Test equipment for other materials: GC-MS, LC-MS, GC-ECD LOQ: 5 mg/kg
Trixylyl phosphate **TPP** - Triphenyl phosphate **TEPA** – tris(aziridinyl) phosphinoxide Iso-propylated phenyl phosphate (3:1)	25155-23-1 SVHC 115-86-6 SVHC 545-55-1 68937-41-7 SVHC	Not Detected	EN ISO 17881-2 (textiles) Test equipment for other materials: GC-MS, LC-MS, GC-ECD LOQ: 5 mg/kg

Formaldehyde

Product related chemical in textiles, leather/imitation leather, packaging. Used in shrinkage/wrinkle-resistant treatment, oil/dirt/water-repellent treatment, used as dye-fixing agent, and as preservative in packaging. In tanning process of synthetic leather, may also release formaldehyde.

Formaldehyde	50-00-0 CMR Fast Track	< 20 mg/kg (children < 2 year); < 75 mg/kg all other textiles	Textiles: EN ISO 14184-1/-2/-3 Leather: ISO 17226-1 (HPLC analysis) ISO 17226-2 (Colorimetric analysis) ISO 17226-3 (VOC analysis) ISO 27587 (Process auxiliaries) LOQ: 16 mg/kg

GHG & ODS – Fluorinated Greenhouse Gases and Ozone-Depleting Substances

May be used as form blowing agents, solvents, fire retardants, and aerosol propellants.

GHG – Fluorinated Greenhouse Gases	Various: see Regulation (EU) No 2024/573 for the complete list	BANNED	No standardized test method Test equipment: GC-MS LOQ: 0.1 mg/kg each
ODS – Ozone-Depleting Substances	Various: see Regulation (EC) No 2024/590 for the complete list	BANNED	All materials: In-house testing method: HS-GC-MS at 120 degree C for 45 minutes LOQ: 5 mg/kg

Hydroxymethyl Acrylamide

In textiles/leather/trim/accessories: used as sizing agents, as crease-resistance/anti-wrinkle finishing, as anti-static agents, as binder in surface coatings); In packaging: as binders in adhesives, in surface coatings, in resins for varnishes, as additive agents to increase the wet strength of paper)

Hydroxymethyl Acrylamide Also called: N-(hydroxymethyl)acrylamide	924-42-5 SVHC	Not Detected	No standardized test method Test equipment: LC-MS, GC-MS LOQ: 500 mg/kg

Melamine

Can be found as melamine formaldehyde polymers in leather tanning agents. Can also be used as cross-linker in crease-resistant finishing agents for cellulosic fabrics (MMCF). Used also as melamine derivatives in water repellent finishing. As blowing agent in flame retardants for textile coatings and PU foams.

Melamine	108-78-1 SVHC	Not Detected	No standardized test method Test equipment: LC-MS/MS, LOQ: 0.1 mg/kg

Metals

Heavy metals (extractable and total content) and their compounds/salts
Metals and their compounds/salts are used in textiles, leather/imitation leather, accessories and packaging. See Appendix for more details.
The total concentration of Pb, Cd, Hg, and Cr+6 in packaging or in packaging components shall not exceed 100 mg/kg. Directive (EC) No 94/62/EC of 20 December 1994 on packaging and packaging waste.

Antimony (**Sb**) & its compounds	7440-36-0 (metal)	< 30 mg/kg (extractable)	Textiles: EN 16711-1 (total content), EN 16711-2 (extractable content) EN 16711-3 (lead release from all materials in textile articles) Leather: EN ISO 17072-1 (extractable content), EN ISO 17072-2 (total content) Rubber: ISO 19050
Arsenic (**As**) & its compounds	Various – See ***Appendix M*** 7440-38-2 (metal)	< 0.2 mg/kg (extractable) < 100 mg/kg (total)	
Barium (**Ba**) & its compounds	7440-39-3 (metal)	< 1000 mg/kg (extractable)	
Cadmium (**Cd**) & its salts	Various – See ***Appendix M***	< 0.1 mg/kg (extractable)	

	7440-43-9 (metal)	< 40 mg/kg (total)	LOQs: Antimony (Sb): 3 ppm extractable Arsenic (As): 0.2 ppm extractable, 10 ppm total Barium (Ba): 100 ppm extractable Cadmium (Cd): 0.05 ppm extractable, 5 ppm total Chromium (Cr): 0.5 ppm extractable Cobalt (Co): 0.5 ppm extractable Copper (Cu): 5 ppm extractable Lead (Pb): 0.2 ppm extractable, 10 ppm total Mercury (Hg): 0.02 ppm extractable, 0.1 ppm total Selenium (Se): 50 ppm extractable Test equipment for metal Cd, Cr, Pb: XRF screening: LOQ: 50 mg/kg
Chromium (**Cr**) and its compounds	Various 7440-47-3 (metal)	< 2 mg/kg (Extractable)	
Cobalt (**Co**) and its compounds	7440-48-4 (metal)	< 4 mg/kg (extractable) for adults < 1 mg/kg (extractable) for children	
Copper (**Cu**) and its compounds	7440-50-8 (metal)	< 50 mg/kg (extractable) for adults < 25 mg/kg (extractable) for children	
Lead (**Pb**) and its salts	Various – See ***Appendix M*** 7439-92-1 (metal)	< 1 mg/kg (extractable) < 90 mg/kg (total) < 100 mg/kg for metal in plastics and metallic accessories.	
Mercury (**Hg**) and its compounds	Various – See ***Appendix M*** 7439-97-6 (metal)	Not Detected (extractable) < 0.5 mg/kg (total content in accessories)	
Selenium (Se)	7782-49-2 (Metal)	< 500 mg/kg (extractable)	
Chromium VI (**Cr+6**)	18540-29-9, See ***Appendix N***	< 1 mg/kg (extractable for textiles) < 3 mg/kg (extractable for leather)	Textiles: DIN EN 16711-2 (extractable) with EN ISO 17075-1 if Cr detected. Leather: EN ISO 17075 Leather aging test: EN ISO 10195 Method A2 Textiles: LOQ: 0.5 mg/kg (extractable) Leather: LOQ: 3 mg/kg (extractable) Test equipment for metal chromium: XRF screening LOQ: 50 mg/kg
Nickel (Ni)	7440-02-0 (metal)	< 0,5 µg / cm² / week (microgram per sq.cm per week) for prolonged skin contact, also valid for eyewear frames. < 1 mg/kg (extractable)	Nickel (Ni) Release: EN 12472:2020 and EN 1811:2023 EN 16128 (Eyewear frames) LOQ: 0.02 µg/cm² /week Extractable Content: Textiles: DIN EN 16711-2 (extractable) Leather: DIN EN ISO 17072-1 (extractable) LOQ: 0.1 mg/kg (extractable)

PAH – Polycyclic aromatic hydrocarbons

Process chemicals used in leather/imitation leather and accessories – intermediaries of thermosetting plastics, lubricates, impurities from production of rubber, leather, soft plastics, colored plastics which containing carbon black, etc.

PAHs – Polycyclic Aromatic Hydrocarbons	Various – See ***Appendix L***	Not Detected	Textile: EN 17132 Leather & Accessories: AfPS GS 2019-01 PAK Footwear: CEN ISO/TS 16190 LOQ: 0.2 mg/kg each

PFAS/PFCs (PFOA, PFOS, PFPE)

PFOA and its related substances (PFCA – highly fluorinated carboxylic acids), **PFOS** and its related substances (PFSA – highly fluorinated sulfonic acids), **PFPE** – Highly fluorinated ethers, are used in textiles and leather/imitation leather. PFOA/PFOS-related substances are used in water/oil repellent textile finishes, impregnation agents in leather, also used as emulsifier in the production of fluoropolymers (PTFE – polytetrafluoroethylene).

PFAS – Per- and polyfluoroalkyl substances **Incl. PFHxA**	Various – See ***Appendix K***	All testing steps shall be conducted sequentially. REQ for Step 1 (TOF): < 50 ppm by 2025 < 10 ppm by 2027 REQ for Step 2: Not Detected	Testing sequence (Step 1 and Step 2) Step 1: Total organic fluorine (TOF): EN 14582:2016 or ASTM D7359:2023 LOQ: 10 ppm total Step 2: PFAS: volatile or non-volatile Textiles: EN 17681-1/-2 Leather/Furs: EN ISO 23702-1 Test equipment: LC-MS, HPLC-tandem MS, HPLC-quadrupole MS
PFOA – (part of) Highly fluorinated carboxylic acids (**PFCA**) **Incl. PFHxA**	Various – See ***Appendix K*** Such as 335-67-1		
PFOS – (part of) Highly fluorinated sulfonic acids (**PFSA**)	Various – See ***Appendix K*** Such as 1763-23-1, 335-46-4		
PFPE – Highly fluorinated ethers	Various – See ***Appendix K*** Such as 13252-13-6		

			LOQ: 1 µg/m2 (microgram per square meter) or 10 µg/kg (pbb) (PFOA) LOQ: 0.1 µg/m2 (PFOS) LOQ: -- (PFPE)

Phthalate ester Used in textiles, leather/imitation leather, accessories and packaging. Used as plasticizers in polymers, additives in adhesives, paints, lacquers, varnishes and solvents.			
Phthalate esters	Various – See ***Appendix J***	< 1000 mg/kg (0.1% by weight) for total sum of all phthalate esters	Sample preparation for all materials: CPSC-CH-C1001-09.4 EN ISO 14389 (textile) EN ISO 16181-1/-2 (footwear) Test equipment: GC-MS, LC-MS LOQ: 50 mg/kg

pH Value If pH value is above 10 or below 3 can cause skin irritation. The pH value can be corrected by washing. For chrome-tanned leather, the final fixing bath of the re-tanning process should always have a pH below 4.0 to guard against the formation of Chromium VI (Cr+6)			
pH value for textiles	Plant/Cellulosic fibers	4.0 – 8.5	Textile: EN ISO 3071 Leather: EN ISO 4045 Accuracy: 0.2 pH units
pH value for textiles	Animal/Natural fibers	3.5 – 7.0	
pH value for leather	Leather products	3.5 – 7.0	
pH value for leather	Leather products – Chrome-Tanned	3.2 – 5.5	

Quinoline Process chemicals used in textiles – in production of rubber, dyes, etc., mainly found in disperse and vat dyes.			
Quinoline	91-22-5 CMR fast track	< 50 mg/kg	All materials: DIN 54231 with methanol extraction at 70 degree C; or prEN ISO 13144 Test equipment: GC-MS, LC-MS. LOQ: 10 mg/kg
Isoquinoline	119-65-3		

Siloxanes – Silicone related Chemicals used in textiles, leather/imitation leather, accessories and packaging. In washing & cleaning products, in textile treatment products and dyes. As precursors in the production of polymers such as silicone rubbers.			
D4 Octamethylcyclotetrasiloxane	556-67-2 SVHC	< 1000 mg/kg (0.1% by weight)	Textiles: No standard test methods Leather: EN ISO 23649:2025 Test equipment: GC-MS. LOQ: 100 mg/kg
D5 Decamethylcyclopentasiloxane	541-02-06 SVHC		
D6 Dodecamethylcyclohexasiloxane	540-97-6 SVHC		
L3 Octamethyltrisiloxane	107-51-7		

Solvents (Incl Aliphatic Organic Solvents, Aromatic Organic Solvents, Chlorinated Organic Solvents/Carriers) Process Chemicals used in textiles, leathers/imitation leathers – solvents, finishing agents, softeners, in dyeing, printing, stain removal, coating, binders, etc. Chlorobenzenes and Chlorotoluenes can be used as carriers in the dyeing process of synthetic or blended fibers but are not recommended for dyeing in high-pressure machinery. Formamide used as solvent and/or plasticizer in production of synthetic leather & inks, in consumer products.			
2-methoxyethyl acetate (EGMEA – (Ethylene glycol monomethyl ether acetate)	110-49-6 SVHC	Not Detected	No standard test method available. Solvent extraction. Test equipment: GC-MS or LC-MS LOQ: 100 mg/kg
Formamide	75-12-7 SVHC	Not Detected	No standard test method available. Solvent extraction. Test equipment: GC-MS or LC-MS LOQ: 50 mg/kg
Chlorinated Organic Solvents – partially used as carriers in dyeing	Various – See ***Appendix B***	Not Detected	No standard quantitative test method available.

process of synthetic fibers and blended fibers			Solvent extraction. Test equipment: GC-MS, HS-GC-MS, GC-ECD EN 17137 for chlorobenzenes and chlorotoluenes. LOQ 0.5 mg/kg
Other Solvents (VOCs, Benzene, DMFa, DMAC, NMP, NEP) Process chemicals used in textiles, leather, accessories and packaging – solvent in coating process, production of PU, plastics, glue/adhesives, and rubber, etc.			
VOCs (Volatile organic compounds)	Various – See ***Appendix H***	< 500 mg/kg total, report concentration above LOQ value < 5 mg/kg (benzene only)	For general VOC screening: GC-MS Headspace 45 minutes at 120 degrees C Test equipment: HS-GC-MS LOQ: 100 mg/kg each LOQ: 1 mg/kg (benzene only)
Benzene	71-43-2 CMR fast track	< 5 mg/kg	In-house with ref to EN17137 (textile) LOQ: 1mg/kg
DMFa (N,N-dimethylformamide)	68-12-2 SVHC/CMR fast track	< 500 mg/kg for sum of DMFa, DMAC, NMP and NEP	EN 17131 (textile) EN ISO 16189 (footwear and footwear components) EN 16778 (protective gloves) Test equipment: GC-MS LOQ: 10 mg/kg
DMAC (N,N-dimethylacetamide)	127-19-5 SVHC/ CMR fast track		Textiles: prEN 17131-1 Test equipment: GC-MS, LC-MS LOQ: 10mg/kg
NMP (N-methyl-2-pyrrolidone)	872-50-4 SVHC/CMR fast track		NMP: prEN 17131-1 (textiles) NMP: EN ISO 19070 (leather) Test equipment: GC-MS, LC-MS LOQ: 25mg/kg
NEP (1-ethylpyrrolidin-2-one)	2687-91-4 CMR fast track		

Synthetic polymer microplastics or microparticles In the scope of regulation/restriction: Decorative items such as party/toy hats, Christmas decorations, craft items are covered by the regulation/restriction. (Intentionally added/used). Synthetic polymers that are non-biodegradable, or insoluble, or contain carbon atoms in the chemical structure. Out of the scope of regulation/restriction: Microfiber release from the synthetic textile material itself is out of the scope (unintentional release). Glitter bonded in garments and shoes, or sequins and beads that are sewn onto an article is also out of the scope.			
Microplastics/microparticles Polymers that are solid (small pieces of plastics) which are either **Upper bond:** ≤ 5mm OR the length is ≤ 15mm AND the ratio of Length to Diameter > 3. **Lower bond:** In any dimension: 0.1µm (micrometer) OR In length: 0.3µm (micrometer).	Regulation (EC) No 1907/2006 (REACH), Annex XVII, Entry 78	BANNED	For intentional use: Annex XVII, Entry 78, Appendix 15 & 16 No standardized test method available.

Tin organic compounds (Organostannic compounds) Process chemicals used in textiles, leather, accessories and packaging, stabilizers, catalysts in production of PVC, PU.			
Tin organic compounds (Organostannic compounds)	Various – See ***Appendix I***	Not Detected	EN ISO 22744-1/-2 (textile) Test equipment: GC, LC

			CEN ISO/TS 16179 (footwear). Test equipment: GC-MS. LOQ: 0.2 mg/kg each

UV stabilizers Product related chemicals used in textiles, leather/imitation leather, accessories, and packaging. UV-stabilizer for plastics, polymeric materials, PU and rubber, and constituent in formulations used for coating of surfaces, also used in dry-cleaning equipment. The substances are categorized as very persistent, very bio-accumulative and toxic (i.e. vPvB, PBT)			
UV-320 (2-benzotriazol-2-yl-4,6-di-tert-butylphenol)	3846-71-7 SVHC	Not Detected	ISO 24040:2022 (benzotriazoles) Test equipment: GC-MS, LC-MS, GC-ECD LOQ: 50 mg/kg
UV-326 Bumetrizole	3896-11-5 SVHC		
UV-327 (2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol)	3864-99-1 SVHC		
UV-328 (2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol)	25973-55-1 SVHC		
UV-329 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3,-tetramethylbutyl)phenol	3147-75-9 SVHC		
UV-350 (2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol)	36437-37-3 SVHC		
3-BC (1,7,7-trimethyl-3-(phenyl methylene) bicyclol [2.2.1] heptan-2-one); **3-benzylidene camphor**	15087-24-8 SVHC	Not Detected	No standard test method available. Test equipment: LC-MS, GC-MS LOQ: 100 mg/kg
DBMC (6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol)	119-47-1 SVHC	Not Detected	No Standardized test method available Test equipment: LC and GC-MS LOQ: 100 mg/kg
Drometrizole	2440-22-4	For mapping content levels only	ISO 24040 Test equipment: GC-MS, LC-MS, GC-ECD LOQ: 50 mg/kg

4.0 APPENDIXES – LISTS OF SUBSTANCES IN SOME INDIVIDUAL GROUPS OF CHEMICALS

Appendix A – AP & APEO	**CAS RN**
* = SVHC List; **=Restricted under REACH XVII, 46a	
4-(1,1,3,3-tetramethylbutyl) phenol (**4-tert-OP**)	140-66-9*
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated (**4-tert-OPnEO**, UVCB substance)	- *
4-Nonylphenol, branched and linear (**4-NP**)	Various *
4-Nonylphenol, branched and linear, ethoxylated (**4-NPnEO**)	Various *
4-tert-butylphenol	98-54-4*
Nonylphenol (**NP**)	Various
Nonylphenol Ethoxylates (**NPEO**)	Various
Octylphenol (**OP**)	Various
Octylphenol Ethoxylates (**OPEO**)	Various
PDDP: Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerization, covering any individual isomers and/ or combinations thereof	- *
Tris (4-nonylphenyl, branched and linear) phosphate (**TNPP**) with = 0.1% w/w of 4-nonylphenol, branched and linear (**4-NP**)	- *
Isononylphenol, ethoxylated / Poly (oxy-1,2-ethanediyl), alpha-(isononylphenyl)-… ((C2H4O)nC15H24O)	37205-87-1**
Nonylphenol, ethoxylated / Poly (oxy-1,2-ethanediyl), alpha-(nonylphenyl)-ome… ((C2H4O)nC15H24O)	9016-45-9**
4-Nonylphenol, branched, ethoxylated; 1 - 2.5 moles ethoxylated / Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-o… ((C2H4O)nC15H24O)	127087-87-0**
Nonylphenol, branched, ethoxylated; 1 - 2.5 moles ethoxylated; Poly (oxy-1,2-ethanediyl), alpha-(nonylphenyl)-ome… ((C2H4O)nC15H24O)	68412-54-4**
4-Nonylphenol, ethoxylated; 1 - 2.5 moles ethoxylated; Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-o… ((C2H4O)nC15H24O)	26027-38-3**

Appendix B – ORGANIC SOLVENTS (Aliphatic, Aromatic, Chlorinated)	**CAS RN**
Chlorinated Organic Compounds/Carriers (Chlorotoluenes, Chlorobenzenes) Chlorobenzenes and chlorotoluenes can be used as carriers in dyeing process of synthetic or blended fibres. Those are also used as solvents (* = SVHC list, ** = CMR fast track, # = Annex XVII, ¤ = deplete ozone layer)	
Monochlorobenzene	108-90-7
Dichlorobenzenes, all isomers	Various
Dichlorobenzene: 1,2-Dichlorobenzene (1,2 DCB)	95-50-1
Dichlorobenzene: 1,2-Dichlorobenzene-D4	2199-69-1
Dichlorobenzene: 1,3-Dichlorobenzene (1,3 DCB)	541-73-1
Dichlorobenzene: 1,4-Dichlorobenzene (1,4 DCB)	106-46-7 #
Trichlorobenzenes, all isomers	Various
Trichlorobenzene: 1,2,3-Trichlorobenzene (1,2,3 TCB)	87-61-6
Trichlorobenzene: 1,2,4-Trichlorobenzene (1,2,4 TCB)	120-82-1
Trichlorobenzene: 1,3,5-Trichlorobenzene (1,3,5 TCB)	108-70-3
Tetrachlorobenzenes, all isomers	Various
Tetrachlorobenzene: 1,2,3,4-Tetrachlorobenzene (1,2,3,4 TeCB)	634-66-2
Tetrachlorobenzene: 1,2,3,5-Tetrachlorobenzene (1,2,3,5 TeCB)	634-90-2
Tetrachlorobenzene: 1,2,4,5-Tetrachlorobenzene (1,2,4,5 TeCB)	95-94-3
Pentachlorobenzene (1,2,3,4,5-Pentachlorobenzene)	608-93-5
Hexachlorobenzene (1,2,3,4,5,6-Hexachlorobenzene)	118-74-1
Monochlorotoluenes, all isomers	Various
Monochlorotoluene: 2-Chlorotoluene (2 CT)	95-49-8
Monochlorotoluene: 3-Chlorotoluene (3 CT)	108-41-8
Monochlorotoluene: 4-Chlorotoluene (4 CT)	106-43-4
Monochlorotoluene: Benzyl Chloride / a-chlorotoluene	100-44-7**/ #
Dichlorotoluenes, all isomers	Various
Dichlorotoluene: 2,3-Dichlorotoluene (2,3 DCT)	32768-54-0
Dichlorotoluene: 2,4-Dichlorotoluene (2,4 DCT)	95-73-8
Dichlorotoluene: 2,5-Dichlorotoluene (2,5 DCT)	19398-61-9
Dichlorotoluene: 2,6-Dichlorotoluene (2,6 DCT)	118-69-4
Dichlorotoluene: 3,4-Dichlorotoluene (3,4 DCT)	95-75-0
Dichlorotoluene: 3,5-Dichlorotoluene (3,5 DCT)	25186-47-4
Dichlorotoluene: a,a-Dichlorotoluene / Benzal chloride / (DICHLOROMETHYL)BENZENE	98-87-3
Dichlorotoluene: a,o-Dichlorotoluene / o-Chlorobenzyl chloride	611-19-8
Dichlorotoluene: a,p-Dichlorotoluene / p-Chlorobenzyl chloride	104-83-6
Trichlorotoluenes, all isomers	Various

Trichlorotoluene: 2,3,4-Trichlorotoluene (2,3,4 TCT)	7359-72-0
Trichlorotoluene: 2,3,6-Trichlorotoluene (2,3,6 TCT)	2077-46-5
Trichlorotoluene: 2,4,5-Trichlorotoluene (2,4,5 TCT)	6639-30-1
Trichlorotoluene: 2,4,6-Trichlorotoluene (2,4,6 TCT)	23749-65-7
Trichlorotoluene: 3,4,5-Trichlorotoluene (3,4,5 TCT)	21472-86-6
Trichlorotoluene: a,2,6-Trichlorotoluene	2014-83-7
Trichlorotoluene: Benzotrichloride / a,a,a-Trichlorotoluene	98-07-7**/ #
Tetrachlorotoluenes, all isomers	Various
Tetrachlorotoluene: 2,3,4,5-Tetrachlorotoluene (2,3,4,5 TeCT)	76057-12-0
Tetrachlorotoluene: 2,3,4,6-Tetrachlorotoluene (2,3,4,6 TeCT)	875-40-1
Tetrachlorotoluene: 2,3,5,6-Tetrachlorotoluene (2,3,5,6 TeCT)	1006-31-1
Tetrachlorotoluene: a,a,2,6-Tetrachlorotoluene	81-19-6
Tetrachlorotoluene: p-chlorobenzotrichloride / a,a,a,4-Tetrachlorotoluene	5216-25-1**/ #
Pentachlorotoluene (2,3,4,5,6-Pentachlorotoluene)	877-11-2
Other Chlorinated Organic Solvents (* = SVHC list, # = Annex XIV or XVII)	
Tetrachloroethylene (Perchloroethylene) (PERC)	127-18-4
Carbon tetrachloride/ tetrachloromethane	56-23-5 ¤
1,1-Dichloroethylene	75-35-4 #
1,2-Dichloroethane	107-06-2
1,2-Dichloropropane	78-87-5
1,1,1-Trichloroethane	71-55-6 ¤
Pentachloroethane	76-01-7 #
1,1,2-Trichloroethane	79-00-5 #
Trichloroethylene (TCE)	79-01-6*/ #
1,1,1,2-tetrachloroethane	630-20-6 (A17)
1,1,2,2-Tetrachloroethane	79-34-5 #
1,2,3-trichloropropane	96-18-4*
Chloronaphthalenes	Various
Chloroform	67-66-3 #
Methylene Chloride / dichloromethane	75-09-2
* = SVHC List, ** = CMR fast track, # = Annex XVI or XVII	

Appendix C - BANNED ARYLAMINES RELATED TO AZO DYES	**CAS RN**
* = SVHC list, ** = CMR fast track, # = Annex XVII entry 43	
2,4,5-trimethylaniline	137-17-7 /#
2,4,5-trimethylaniline hydrochloride	21436-97-5**
2,4-diaminoanisole sulphate	39156-41-7**
2,4-xylidine	95-68-1
2,6-xylidine	87-62-7
2-Naphthylamine	91-59-8 /#
2-Naphthylammoniumacetate	553-00-4**
3,3'-Dichlorobenzidine	91-94-1 /#
4,4'-bi-o-toluidine (3,3'-dimethylbenzidine)	119-93-7 /#
4,4'-Methylenebis(2-chloroaniline)	101-14-4*/#
4,4'-Methylene-dianiline (4,4'-Diaminodiphenylmethane) (MDA)	101-77-9*/#
4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl-4,4'-diaminodiphenylmethane)	838-88-0* /#
4,4'-oxydianiline	101-80-4* /#
4,4'-thiodianiline	139-65-1 /#
4-Aminoazobenzene (p-Aminoazobenzene) 4-AAB (p-AAB), C.I. Solvent Yellow 1	60-09-3* /#
4-chloroaniline (p-Chloroaniline)	106-47-8 /#
4-Chloro-o-toluidine	95-69-2 /#
4-chloro-o-toluidinium chloride	3165-93-3**
4-methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4 /#
4-methyl-m-phenylenediamine (2,4-Toluenediamine) (TDA - 2,4-toluylen-diamine)	95-80-7* /#
5-Nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8 /#
Aniline (Free)	62-53-3
Benzidine	92-87-5 /#
Biphenyl-4-ylamine (4-Aminodiphenyl)	92-67-1*/#
o-Aminoazotoluene; C.I. Solvent Yellow 3	97-56-3* /#
o-Anisidine	90-04-0* /#
o-Dianisidine (3,3'-Dimethoxybenzidine)	119-90-4 /#
o-Toluidine	95-53-4* /#
p-Cresidine	120-71-8* /#
* = SVHC List, ** = CMR fast track (A17e72), # = Annex XVII entry 43	

Appendix D - CARCINOGENIC DYESTUFFS / CMR Toxic dyestuffs	CAS RN
* = SVHC List, ** = CMR fast track	
Acetic acid, lead salt, basic	51404-69-4*/**
C.I. Acid Red 114	6459-94-5
C.I. Acid Red 26	3761-53-3
C.I. Acid Red 73	5413-75-2
C.I. Acid Violet 49	1694-09-3
C.I. Basic Blue 26	2580-56-5*
C.I. Basic green 4	569-64-2, 2437-29-8, 10309-95-2
C.I. Basic Red 9	569-61-9**
C.I. Basic Violet 1	8004-87-3
C.I. Basic Violet 14	632-99-5
C.I. Basic Violet 3	548-62-9*/**
C.I. Direct Black 38	1937-37-7*
C.I. Direct Blue 1	2610-05-1
C.I. Direct blue 15	2429-74-5
C.I. Direct Blue 53	314-13-6
C.I. Direct Blue 6	2602-46-2
C.I. Direct Brown 6	2893-80-3
C.I. Direct Brown 95	16071-86-6
C.I. Direct Green 6	4335-09-5
C.I. Direct orange 31	6420-03-7
C.I. Direct Red 28	573-58-0*
C.I. Disperse Blue 1	2475-45-8**
C.I. Disperse Orange 11	82-28-0
C.I. Disperse Orange 149	85136-74-9
C.I. Disperse Yellow 3	2832-40-8
C.I. Solvent Blue 4	6786-83-0*
C.I. Solvent Violet 8 (4,4´-bis(dimethylamino)-4´-(methylamino)trityl alcohol)	561-41-1*
C.I. Solvent Yellow 2	60-11-7
Michler´s base	101-61-1*
* = SVHC List, ** = CMR fast track	

Appendix E - ALLERGENIC DISPERSE DYES AND NAVY BLUE	CAS RN
C.I. Disperse Black 2; Synonyms: Diazo Black 2	6232-57-1
C.I. Disperse Blue 1; Synonyms: C.I. Number 64 500	2475-45-8 ¤
C.I. Disperse Blue 102	12222-97-8
C.I. Disperse Blue 106	12223-01-7 ¤, 68516-81-4
C.I. Disperse Blue 124	61951-51-7 ¤
C.I. Disperse Blue 26	3860-63-7, 100357-99-1, 13324-23-7
C.I. Disperse Blue 3	2475-46-9
C.I. Disperse Blue 35	12222-75-2 ¤
C.I. Disperse Blue 35A	56524-77-7
C.I. Disperse Blue 35B	56524-76-6
C.I. Disperse Blue 7	3179-90-6
C.I. Disperse Brown 1	23355-64-8
C.I. Disperse Orange 1	2581-69-3
C.I. Disperse Orange 149	85136-74-9
C.I. Disperse Orange 3	730-40-5 ¤
C.I. Disperse Orange 37/59/76; Disperse Orange 76 is a synonym of disperse orange 37	12223-33-5, 51811-42-8, 13301-61-6 ¤
C.I. Disperse Red 1	2872-52-8 ¤
C.I. Disperse Red 11	2872-48-2
C.I. Disperse Red 151	61968-47-6
C.I. Disperse Red 17	3179-89-3
C.I. Disperse Red 7	4540-00-5
C.I. Disperse Yellow 1	119-15-3
C.I. Disperse Yellow 23	6250-23-3
C.I. Disperse Yellow 3; Synonyms: C.I. Number 11 855	2832-40-8 ¤
C.I. Disperse Yellow 39	12236-29-2
C.I. Disperse Yellow 49	54824-37-2, 12239-15-5, 6858-49-7
C.I. Disperse Yellow 54	7576-65-0
C.I. Disperse Yellow 56	54077-16-6
C.I. Disperse Yellow 7	6300-37-4
C.I. Disperse Yellow 9	6373-73-5
Navy Blue; Synonyms: EC# 405-665-4, Index No 611-070-00-2 Component 1: C39H23ClCrN7O12S.2Na,	# (Annex XVII, entry 43) 118685-33-9

Component 2: C46H30CrN10O20S2.3Na	-

Appendix F - BIOCIDAL AGENTS	**CAS RN**
Silver (Ag) and its compounds Used in textiles and leather. Silver Nano-particle complexes are antibiotic additives in plastics and fibres.	
Reaction mass of titanium dioxide and silver chloride	-
Silver adsorbed on silicon dioxide	-
Silver chloride	7783-90-6
Silver copper zeolite	130328-19-7
Silver nitrate	7761-88-8
Silver phosphate glass	308069-39-8
Silver sodium hydrogen zirconium	422-570-3
Silver sodium hydrogen zirconium phosphate	265647-11-8
Silver zeolite	-
Silver zinc zeolite	130328-20-0
Trisubstituted tin organic Used in textiles and leather. Those are also preservatives, fungicides and antifouling agents. (* = SVHC List)	
TBT (Tributyltin) (TBTs)	Various
TBTO (Tributyltin oxide)	56-35-9*
Tributyltin benzoate	4342-36-3
Tributyltin chloride	1461-22-9
Tributyltin fluoride	1983-10-4
Tributyltin linoleate	24124-25-2
Tributyltin methacrylate	2155-70-6
Tributyltin naphthenate	85409-17-2
DBT (Dibutyltin dichloride)	683-18-1*
Other chlorophenols and biocidal agents Used in textiles, leather, packing and transportation.	
Carbendazim	10605-21-7**
Chitosan	9012-76-4
Cu-HDO (Bis-(N-cyclohexyldiazeniumdioxy) –copper)	312600-89-8**
DiCP (Dichlorophenols), all isomers	25167-81-1
DMFu (Dimethylfumarate)	624-49-7
Ethyltrianol	107534-96-3
Guanidine, N,N'''-1,6-hexanediylbis[N'-cyano-, polymer with 1,6-hexanediamine, hydrochloride (PHMB 1600; 1.8)	27083-27-8**, 32289-58-0**
Methylbromid	74-83-9
Mono-CP (Monochlorophenols), all isomers	25167-80-0
OPP (2-phenylphenol)	90-43-7
PCP (Pentachlorophenol and its salts and esters)	87-86-5 (PCP)***, 131-52-2(PCP sodium salt)***
TeCP (2,3,4,5-Tetrachlorophenol) TeCP (2,3,4,6-Tetrachlorophenol) TeCP (2,3,5,6-Tetrachlorophenol)	4901-51-3*** 58-90-2*** 935-95-5***
TriCP (2,3,4-Trichlorophenol); TriCP (2,3,5-Trichlorophenol) TriCP (2,3,6-Trichlorophenol); TriCP (2,4,5-Tricholorphenol) TriCP (2,4,6-Trichlorophenol); TriCP (3,4,5-Trichlorophenol)	15950-66-0***, 933-78-8*** 933-75-5***, 95-95-4*** 88-06-2***, 609-19-8***
Permethrin	52645-53-1
Phosphine	7803-51-2
Sulphuryl difluoride	2699-79-8
TriCP (Trichlorophenols), all isomers	25167-82-2
Triclosan	3380-34-5**
Triclocarban	101-20-2**
Zincpyrithion	13463-41-7
* = SVHC List, ** = Banned PT9 List, ***=Banned in Norway in textiles and leather	

Appendix G – OTHER FLAME RETARDANTS	**CAS RN**
Boric acid, borate compounds Use mainly in packaging, such as cellulosic materials. Wood veneers/pressed wooden panels, and boards. (* = SVHC List)	
Barium diboron tetraoxide	13701-59-2*
Boric acid	10043-35-3*, 11113-50-1*
Disodium octaborate	12008-41-2*
Disodium tetraborate anhydrous	1303-96-4*, 12179-04-3*, 1330-43-4*
Orthoboric acid, sodium salt	13840-56-7*

Sodium perborate; perboric acid, sodium salt	234-390-0*
Sodium peroxometaborate	7632-04-04*
Tetraboron disodium heptaoxid, hydrate	12267-73-1*
HBCD, HBCDD – Hexabromocyclododecane Use mainly in textiles and packaging. Flame retardant treatment of products, (i.e. upholstery and interior textiles), where fire protection is required. Also used in packaging flakes made of polystyrene (PS). (* = SVHC List, ** = POP List)	
1,1,2,2,3,3-Hexabromocyclododecane	25637-99-4 */**
1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6 */**
alpha-Hexabromocyclododecane	134237-50-6 */**
beta-Hexabromocyclododecane	134237-51-7 */**
gamma-Hexabromocyclododecane	134237-52-8 */**
PBB, **PBDE** – Polybrominated biphenyls, Polybrominated diphenyl ethers Used in textiles, leather/imitation leather, accessories and packaging. Used for flame-retardant treatment of products where fire protection is required. (* = SVHC List, ** = POP List, # = Annex XVII, entry 45, entry 8)	
BBMP (2,2-bis(bromomethyl)-1,3-propanediol)	3296-90-0
BDBPP (Bis(2,3-dibromopropyl) phosphate)	5412-25-9
DBDPE (Decabromodiphenyl ethane)	84852-53-9
DecaBDE (Decabromodiphenyl ether)	1163-19-5*/**
HeptaBDE (Heptabromodiphenyl ether)	207122-16-5**, 446255-22-7**
HexaBDE (Hexabromodiphenyl ether)	68631-49-2**, 207122-15-4**
Hexabromobiphenyl	36355-01-8**
OctaBDE (Octabromodiphenyl ether)	32536-52-0**/#
PBB (Polybrominated biphenyls) (mix)	59536-65-1 (mix)/#
PBDE (All other Polybrominated diphenyl ethers9	Various
PentaBDE (Pentabromodiphenyl ether)	32534-81-9**, 60348-60-9**
TBBP A (Tetrabromobisphenol A)	79-94-7
TetraBDE (Tetrabromodiphenyl ether)	5346-43-1**

Appendix H - VOLATILE ORGANIC COMPOUNDS (VOCs)	**CAS RN**	**Related sections in RSLs**
Shall not be used in textile auxiliary chemical preparations. They are associated with solvent-based processes PU coating and glues/adhesives. They shall not be used for any kind of facility cleaning or spot cleaning.		
1,1-Dichloroethylene	75-35-4 #	Chlorinated organic solvent
1,2-Dichloroethane	107-06-2	Chlorinated organic solvent
1,2,Dichloropropane	78-87-5	Chlorinated organic solvent
1,1,1-Trichloroethane	71-55-6 ¤	Chlorinated organic solvent
1,1,2-Trichloroethane	79-00-5 #	Chlorinated organic solvent
1,2,3-trichloropropane	96-18-4*	Chlorinated organic solvent
1,1,1,2-tetrachloroethane	630-20-6 (A17)	Chlorinated organic solvent
1,1,2,2-Tetrachloroethane	79-34-5 #	Chlorinated organic solvent
1-bromopropane	106-94-5 SVHC	New in 2025
1-PG2MEA (1-Propanol,2-methoxy-, acetate)	70657-70-4	New in 2025
2-(2-Methoxyethoxy)ethanol	111-77-3	New in 2025
2,4-toluene diisocyanate	584-84-9	New in 2025
2-Ethoxyethyl acetate	111-15-9 SVHC	New in 2025
2-Ethylhexanoic acid	149-57-5	New in 2025
2-Methoxyethanol EGME (ethylene glycol monomethyl ether)	109-86-4 SVHC	New in 2025
2-Methoxypropan-1-ol	1589-47-5	New in 2025
2-Phenyl-2-Propanol	617-94-7	Blowing/Foaming Agents
Acetonphenone	98-86-2	Blowing/Foaming Agents
Aniline	62-53-3	AZO-dyes
Benzene	71-43-2 CMR fast track	
Bis(2-methoxyethyl)ether	111-96-6 SVHC	New in 2025
Carbon Disulfide	75-15-0	
Chloroform	67-66-3 #	Chlorinated Organic solvents
Cresols (Methylphenoles) (Ortho-, Meta-, Para-Cresol)	95-48-7, 108-39-4, 106-44-5, 1319-77-3	
Cyclohexanone	108-94-1	
DMAC (N,N-dimethylacetamide)	127-19-5 SVHC/ CMR fast track	Other solvents
DMFa (N,N-dimethylformamide)	68-12-2 SVHC/CMR fast track	Other solvents
Ethylbenzene	100-41-4	
EGDME – Ethylene glycol dimethyl ether	110-71-4 SVHC	
EGME – Ethylene glycol monoethyl ether	110-80-5 SVHC	
EGMEA – Ethylene glycol monomethyl ether acetate	110-49-6 SVHC	Solvents
Formamide	75-12-7 SVHC	Solvents
Hexachloroethane	67-72-1	New in 2025
Isophorone	78-59-1	New in 2025

Methylene Chloride / dichloromethane	75-09-2	Chlorinated organic solvent
Methyl ethyl ketone (MEK)	78-93-3	
n-Hexane	110-54-3	
Naphthalene	91-20-3	PAHs
NEP (1-ethylpyrrolidin-2-one)	2687-91-4 CMR fast track	Other solvents
NMP (N-methyl-2-pyrrolidone)	872-50-4 SVHC/CMR fast track	Other solvents
Pentachloroethane	76-01-7 #	Chlorinated Organic Solvents
Phenol	108-95-2	New in 2025
Styrene	100-42-5	
TCE – Trichloroethylene	79-01-6*/ #	Chlorinated Organic Solvents
TEGDME – Triethylene glycol dimethyl ether	112-49-2	
Tetrachloroethylene (Perchloroethylene) (PERC)	127-18-4	Chlorinated Organic Solvents
Carbon tetrachloride/ tetrachloromethane	56-23-5 ¤	Chlorinated Organic Solvents
THF - Tetrahydrofuran	109-99-9	New in 2025
Toluene	108-88-3	
Xylenes (Ortho-, Meta-, Para-Xylene)	95-47-6, 108-38-3, 106-42-3, 1330-20-7	

Appendix I - TIN ORGANIC COMPOUNDS (Organostannic compounds)	**CAS RN (a selection)**
Those can be used as biocides, catalysts, heat stabilizers in production of plastics, rubber, glue/adhesives. In textiles and apparels, those can be associated with textile plastics/rubber, inks, pants, metallic glitter, in PU coatings, and PU membranes, etc. (* = SVHC List, # = Annex XVII)	
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1*
2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (MOTE)	27107-89-7
Tributyltin (TBT)	Various
Bis(tributyltin) oxide (TBTO)	56-35-9*
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4*
Dibutyltin (DBTs)	Various #, 1102-53-5, 78-04-6
Dibutyltin dichloride (DBTC) (DBTDC)	683-18-1*
Dimethyltin (DMT)	Various
Dioctyltin (DOT)	Various #, 15231-44-4, 870-08-6
Diphenyltin (DPhT)	Various
Dipropyltin (DPT)	Various
Monobutylin (MBT)	Various, 78763-54-9
Monomethyltin (MMT)	Various
Monooctylin (MOT)	Various
Monophenyltin (MPhT)	Various
Reaction mass of DOTE & MOTE	- *
Tricyclohexyltin (TCyHT)	Various, 6056-50-4
Tetrabutyltin (TeBT)	1461-25-2
Tetraethyltin (TeET)	597-64-8
Tetraoctyltin (TeOT)	3590-84-9
Trimethyltin (TMT)	Various
Trioctyltin (TOT)	Various, 250252-89-2
Triphenyltin and triphenyltin (TPhT)	Various, 668-34-8
Tripropyltin (TPT)	Various, 761-44-4
Dioctyltin dilaurate, stannate, dioctyl-, bis(coco acyloxy) derivatives., and any other stannate, dioctyl-, bis(fatty acyloxy) derivatives. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	- *
More substances of DBTs can be found in Chemical Guidance Appendix 4 (Pages 80)	Various
* = SVHC List, # = Annex XVII	

Appendix J – PHTHALATE ESTERS	**CAS RN**
* = SVHC List, ** = CMR fast track, # = Annex XVII, entry 51/52, ## = Annex XIV	
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters with ≥ 0.3% of dihexyl phthalate (84-75-3)	68515-51-5*/##
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4*/##
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0*/##
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (84-75-3)	68648-93-1*/##
BBP (Butyl benzyl phthalate)	85-68-7*/#/##
DBP (Dibutyl phthalate)	84-74-2*/#/##
DCHP (Di-cyclohexyl phthalate)	84-61-7*
DEHP (Di(2-ethylhexyl) phthalate)	117-81-7*/#/##
DEP (Diethyl phthalate)	84-66-2
DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters)	68515-42-4*/##

DnHP/DHP (Dihexyl phthalte / Di-n-hexyl phthalate)	84-75-3*/** /##
DIBP (Diisobutyl phthalate)	84-69-5*/#/##
DIDP (Diisodecyl phthalate)	26761-40-0 /#, 68515-49-1
1,2-benzenedicarboxylic acid; di-C6-8-branched alkyl esters, C7-rich	71888-89-6*/** /#/##
DIHxP (Diisohexyl phthalate)	71850-09-4*
DINP (Diisononyl phthalate)	28553-12-0 /#, 68515-48-0
DIOP (Diisooctyl phthalate)	27554-26-3*
DIPP (Diisopentyl phthalate)	605-50-5*/**/##
DMP (Dimethylphthalate)	131-11-3
DMEP (2-Methoxyethyl phthalate)	117-82-8*/**/##
DNOP (Di-n-octyl phthalate)	117-84-0 /#
DPP (Dipentyl phthalate); DPENP (Di-n-pentyl phthalate)	131-18-0*/**/##
DPRP (Dipropyl phthalate)	131-16-8
nPIPP (n-pentyl-isopentyl phthalate)	776297-69-9*/##
* = SVHC List, ** = CMR fast track, # = Annex XVII, entry 51/52, ## = Annex XIV	

Appendix K – PFAS/PFCs Per- & Polyfluorinated Compounds	**Acronym**	**CAS RN**	**PFAS sub-categories**
* = SVHC List, ** = POP / Stockholm Convention			
10:2 FTA (1H,1H,2H,2H-Perfluorododecylacrylat) (Precursor)	10:2 FTA	17741-60-5	C9-C14 PFCA subs.
10:2 FTI (1H,1H,2H,2H-Perfluorododecyl iodide)	10:2 FTI	2043-54-1	C9-C14 PFCA subs.
10:2 FTMA (1H,1H,2H,2H-Perfluorododecyl methacrylate)	10:2 FTMA	2144-54-9	C9-C14 PFCA subs.
10:2 FTOH (1H,1H,2H,2H-Perfluorododecane-1-ol) (Precursor)	10:2 FTOH	865-86-1	C9-C14 PFCA subs.
10:2 FTS (1H,1H,2H,2H-Perfluorododecanesulphonic acid9	10:2 FTS	120226-60-0	C9-C14 PFCA subs.
12:2 FTI (1H,1H,2H,2H-Perfluorotetradecyl iodide)	12:2 FTI	30046-31-2	C9-C14 PFCA subs.
12:2 FTOH (1H,1H,2H,2H-perfluorotetradecan-1-ol)	12:2 FTOH	39239-77-5	C9-C14 PFCA subs.
2,3,3,3-Tetrafluoro-2-(perfluoropropoxy)propanoyl fluoride (PFPE)	HFPO-DA#	2062-98-8*	
4:2 FTOH (1H,1H,2H,2H-Perfluorohexanol) (Precursor)	4:2 FTOH	2043-47-2	
4:2 FTS (4:2 fluorotelomer sulfonate) (Precursor)	4:2 FTS	757124-72-4	
6:2 FTA (1H,1H,2H,2H-Perfluorooctylacrylat) (Precursor)	6:2 FTA	17527-29-6	PFHxA substances
6:2 FTMA (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl methacrylate) (Precursor)	6:2 FTMA	2144-53-8	PFHxA substances
6:2 FTOH (1H,1H,2H,2H-Perfluoro-1-octanol) (Precursor)	6:2 FTOH	647-42-7	PFHxA substances
6:2 FTS (6:2 fluorotelomer sulfonate) (Precursor)	6:2 FTS	27619-97-2	PFHxA substances
8:2 FTA (1H,1H,2H,2H-Perfluorodecylacrylat) (Precursor)	8:2 FTA	27905-45-9	PFOA substances
8:2 FTMA (1H,1H,2H,2H-Perfluorodecyl methacrylate) (precursor)	8:2 FTMA	1996-88-9	PFOA substances
8:2 FTOH (1H,1H,2H,2H-Perfluoro-1-decanol) (Precursor to PFOS)	8:2 FTOH	678-39-7	PFOA substances, C9-C14 PFCA subs.
8:2 FTS (8:2 fluorotelomer sulfonate) (Precursor)	8:2 FTS	39108-34-4	PFOA substances
Ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate (PFPE)	HFPO-DA#	62037-80-3*	
APFO (Ammonium pentadecafluorooctanoate) (PFCA)	APFO	3825-26-1*/**	PFOA salts
Et-PFOA (Ethyl perfluorooctanonate) (PFCA) (precursor)	Et-PFOA	3108-24-5	PFOA substances
H2PFDA (2H,2H-Perfluorodecanoic acid)	H2PFDA	27854-31-5	PFOA substances
H4PFUnA (2H,2H,3H,3H-Perufloroundecanoic acid)	H4PFUnA	34598-33-9	C9-C14 PFCA subs.
HFPO-DA, (2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid) (PFPE)	HFPO-DA(#),	13252-13-6*	
Me-PFOA (Methyl pentadecafluorooctanoate) (PFCA)	Me-PFOA	376-27-2	PFOA substances
N-Et-FOSA (N-Ethyl-Perfluorooctanesulfonamide) (PFSA) (precursor)	N-Et-FOSA	4151-50-2**	PFOS substances
N-Et-FOSE (N-Ethyl-Perfluorooctanesulfonamidoethanol) (PFSA) (precursor)	N-Et-FOSE	1691-99-2**	PFOS substances
N-Me-FHxSA (N-Methylperfluoro-1-hexanesulfonamide)	N-Me-FHxSA	68259-15-4	PFHxS substances
N-Me-FOSA (N-methyl-perfluorooctanesulfonamide) (PFSA) (precursor)	N-Me-FOSA	31506-32-8**	PFOS substances
N-Me-FOSE (N-Methyl-Perfluorooctanesulfonamidoethanol) (PFSA) (precursor)	N-Me-FOSE	24448-09-7**	PFOS substances
PF-3,7-DMOA (Perfluoro-3-7-dimethyloctanecarboxylate)	PF-3,7-DMOA	172155-07-6	C9-C14 PFCA salts
PFBA (Perfluorobutanoic acid) (PFCA)	PFBA	375-22-4	
PFBS (Perfluorobutanesulfonic acid) (PFSA)	PFBS	375-73-5*	
PFDA (Perfluorodecanoic acid) (PFCA), its sodium & ammonium salts PFDA, C10-PFCA	PFDA	335-76-2*/**, 3108-42-7*/**, 3830-45-3*/**	C9-C14 PFCA salts
PFDoA (Perfluorododecanoic acid) (PFCA) (precursor) PFDoA, C12-PFCA	PFDoA	307-55-1*/**	C9-C14 PFCA salts
PFHpA (Perfluoroheptanoic acid) (PFCA)	PFHpA	375-85-9	

PFHxA (Perfluorohexanoic acid) (PFCA), PFHxA, C6-PFCA	PFHxA	307-24-4*, 882489-14-4*	PFHxA salts
PFHxS (Perfluorohexanesulfonic acid) (PFSA)	PFHxS	355-46-4*/**, 108427-53-8*/**	PFHxS salts
PFHxSA (Perfluorohexane sulfonamide	PFHxSA	41997-13-1	PFHxS substances
PFHxS-K (Perfluorohexane Sulfonic acid, potassium salt)	PFHxS-K	3871-99-6	PFHxS salts
PFHxS-Li (Perfluorohexane Sulfonic acid, lithium salt)	PFHxS-Li	55120-77-9	PFHxS salts
PFHxS-Na (Perfluorohexane Sulfonic acid, sodium salt)	PFHxS-Na	82382-12-5	PFHxS salts
PFHxS-NH4 (Perfluorohexane Sulfonic acid, ammonium salt)	PFHxS-NH4	68259-08-5	PFHxS salts
PFNA (Perfluorononanoic acid) (PFCA), its sodium ammonium salts, PFNA, C9-PFCA	PFNA	375-95-1*/**, 21049-39-8*/**, 4149-60-4*/**	C9-C14 PFCA salts
PFOA (Perfluoroctane acid) and its related substances (PFCA)	PFOA	335-67-1*/**	PFOA salts
PFOA-Ag (Silver perfluorooctanoate) (PFCA)	PFOA-Ag	335-93-3	PFOA salts
PFOA-F (Perfluorooctanoyl fluoride) (PFCA)	PFOA-F	335-66-0	PFOA salts
PFOA-K (Potassium perfluorooctanoate) (PFCA)	PFOA-K	2395-00-8	PFOA salts
PFOA-Na (Sodium perfluorooctanoate) (Sodium=Na) PFCA	PFOA-Na	335-95-5	PFOA salts
PFOS (Perfluorooctane Sulfonate) (PFSA)	PFOS	1763-23-1**	PFOS salts
PFOSA (Perfluorooctanesulfonamide) (PFSA) (precursor)	PFOSA	754-91-6**	PFOS substances
PFOS-K (Perfluorooctanesulfonic acid, potassium salt)	PFOS-K	2795-39-3	PFOS salts
PFOS-Li (Perfluorooctanesulfonic acid, lithium salt)	PFOS-Li	29457-72-5	PFOS salts
PFOS-N(C10H21)2(CH3)2 (Didecyldimethyl ammonium perfluorooctane sulfonate)	PFOS-N(C10H21)2(CH3)2	251099-16-8	PFOS salts
PFOS-N(C2H5)4 (Perfluorooctanesulfonic acid, tetraethylammonium salt	PFOS-N(C2H5)4	56773-42-3	PFOS salts
PFOS-NH(OH)2 (Perfluorooctane sulfonate diethanolamine salt	PFOS-NH(OH)2	70225-14-8	PFOS salts
PFOS-NH4 (Perfluorooctanesulfonic acid, ammonium salt)	PFOS-NH4	29081-56-9	PFOS salts
PFPeA (Perfluoropentanoic acid) (PFCA)	PFPeA	2706-90-3	
PFTA (Perfluorotetradecanoic acid) (PFCA) / Heptacosafluorotetradecanoic acid, PFTeDA, C14-PFCA	PFTA/PFTeDA	376-06-7*/**	C9-C14 PFCA salts
PFTrDA (Perfluorotridecanoic acid) (PFCA), PFTrDA, C13-PFCA	PFTrDA	72629-94-8*/**	C9-C14 PFCA salts
PFUnA (Perfluoroundecanoic acid) (PFCA), PFUnA, C11-PFCA	PFUnA	2058-94-8*/**	C9-C14 PFCA salts
POSF (Perfluoro-1-octanesulfonyl fluoride)	POSF	307-35-7	PFOS substances
Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionate (C6 F11 KO3) (PFPE)	HFPO-DA#	67118-55-2*	
* = SVHC List, ** = POP / Stockholm Convention, # = used as emulsifiers in fluoropolymers production, such as PTFE (polytetrafluoroethylene)			

Appendix L – PAH – Polycyclic aromatic hydrocarbons	**CAS RN**
* = SVHC List, ** = CMR fast track, # = Annex XVII entry 50	
1-Methylpyrene	2381-21-7
1-Nitropyrene	5522-43-0
3-Methylcholanthrene	56-49-5
5-Methylchrysene	3697-24-3
7,12-Dimethylbenz(a)anthracene	57-97-6
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7*
Anthracene oil distillation fractions	-- *
Benzo(a)anthracene (BaA)	56-55-3*/**/#
Benzo(a)pyrene (BaP)	50-32-8*/**/#
Benzo(b)fluoranthene (BbFA)	205-99-2**/#
Benzo(e)pyrene (BeP)	192-97-2**/#
Benzo(g,h,i)perylene	191-24-2*
Benzo(j)fluoranthene (BjFA)	205-82-3**/#
Benzo(k)fluoranthene (BkFA)	207-08-9*/**/#
Chrysene (Benzo(a)phenanthrene) (CHR)	218-01-9*/**/#
Cyclopenta(c,d)pyrene	27208-37-3
Dibenz(a,h)acridine	226-36-8
Dibenz(a,j)acridine	224-42-0
Dibenzo(a,e)fluoranthene	5385-75-1
Dibenzo(a,e)pyrene	192-65-4
Dibenzo(a,h)anthracene (DBAhA)	53-70-3**/#
Dibenzo(a,h)pyrene (DBAhP)	189-64-0
Dibenzo(a,i)pyrene	189-55-9
Dibenzo(a,l)pyrene	191-30-0

Fluoranthene	206-44-0*
Fluorene	86-73-7
indeno(1,2,3-c,d)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8*
Pyrene	129-00-0*
* = SVHC List, ** = CMR fast track (A17e72), # = Annex XVII entry 50	

Appendix M – METALS and their compounds/salts	**CAS RN**
Arsenic (As) and its compounds Used in textiles, accessories and packaging, such as glass, metal alloy, and as preservatives. (* = SVHC List, ** = CMR fast track)	
Arsenic (metal)	7440-38-2*/**
Arsenic acid	7778-39-4*/**
Calcium arsenate	7778-44-1*/**
Diarsenic pentoxide	1303-28-2*/**
Diarsenic trioxide	1327-53-3*/**
Triethyl arsenate	15606-95-8*/**
Cadmium (Cd) and its salts Used in textiles, leather/imitation leather, accessories and packaging. Can also occur in pigmented plastisol or rubber prints. Used for surface treatment. As stabilizer and pigment in plastics. (* = SVHC List, ** = CMR fast track)	
Cadmium (Cd) (metal)	7440-43-9*/**
Cadmium carbonate	513-78-0*/**
Cadmium chloride	10108-64-2*/**
Cadmium fluoride	7790-79-6*/**
Cadmium hydroxide	21041-95-2*/**
Cadmium nitrate	10325-94-7*/**
Cadmium sulphate	10124-36-4, 31119-53-6*/**
Cadmium sulphide	1306-23-6*/**
Cadmium, Cadmium oxide	1306-19-0*/**
Lead (Pb) and its salts/compounds Used in accessories and packaging. They are additives in plastics as stabilizers, can also be found in colored plastic materials, metallic surface coating of buttons and accessories. (* = SVHC List, ** = CMR fast track)	
[Phthalato(2-)]dioxotrilead	69011-06-9 */**
Acetic acid, lead salt, basic	51404-69-4 */**
Dioxobis(stearato)trilead	12578-12-0 */**
Fatty acids, C16-18, lead salts	91031-62-8 */**
Lead (Pb) (metal)	7439-92-1*/**
Lead bis(tetrafluoroborate)	13814-96-5 */**
Lead chromate	7758-97-6 */**
Lead chromate molybdate sulphate	12656-85-8 */**
Lead cynamidate	20837-86-9 */**
Lead di(acetate)	301-04-2 */**
Lead diazide	13424-46-9 */**
Lead dinitrate	10099-74-8 */**
Lead dipicrate	6477-64-1 */**
Lead hydrogen arsenate	7784-40-9 */**
Lead monoxide (Lead oxide)	1317-36-8 */**
Lead oxide sulfate	12036-76-9 */**
Lead styphnate	15245-44-0 */**
Lead sulfochromate	1344-37-2 */**
Lead titanium trioxide	12060-00-3 */**
Lead titanium zirconium oxide	12626-81-2 */**
Lead(II) bis(methanesulfonate)	17570-76-2 */**
Orange lead (Lead tetroxide)	1314-41-6 */**
Pentalead tetraoxide sulphate	12065-90-6 */**
Pyrochlore, antimony lead yellow	8012-00-8 */**
Silicic acid (H2Si2O5), barium salt (1:1), lead-doped	68784-75-8 */**
Silicic acid, lead salt	11120-22-2 */**
Sulfurous acid, lead salt, dibasic	62229-08-7 */**
Tetraethyllead	78-00-2 */**
Tetralead trioxide sulphate	12202-17-4 */**
Trilead bis(carbonate)dihydroxide	1319-46-6 */**
Trilead dioxide phosphonate	12141-20-7 */**
Mercury (Hg) and its compounds	

Used in textiles, accessories and packaging. Used as catalysts in production of PU coatings, adhesives, sealants and elastomers. Norway prohibits manufacture, import, export and sale of articles that contain mercury or its compounds ≥ 0.001% by weight (10 mg/kg total content). Total content of Cd, Cr+6, Pb and Hg in packaging or packaging components shall not exceed 100 mg/kg.	
Mercury (Hg) - synonyms: Quicksilver	7439-97-6
Phenylmercury 2-ethylhexanoate	13302-00-6
Phenylmercury acetate	62-38-4
Phenylmercury neodecanoat	26545-49-3
Phenylmercury octanoate	13864-38-5
Phenylmercury propionate	103-27-5

Appendix N - Chromium VI (Cr+6, hexavalent chromium) SVHC compounds	**CAS RN**
Used in textiles, leather/imitation leather, accessories and packaging. Chromic acid is used as wood preservative (packaging). Some dyes can also contain chromium. Oxidation agent, fixing chemical for finishing of direct dyes for improving their wash fastness, for oxidation of vat & sulphur dyes, for finishing of acid dyes on silk and wool, for tanning of leather, for etching of synthetic leather and rubber. Used also as pigments (especially in red, orange, yellow and green), as stabilizer for PVC, found also in fertilizers, biocides, and paints. (* = SVHC List, ** = CMR Fast Tract)	
Ammonium dichromate	7789-09-5*/**
Chromic acid	7738-94-5* /**
Chromium trioxide	1333-82-0* /**
Dichromic acid	13530-68-2* /**
Dichromium tris(chromate)	24613-89-6* /**
Lead chromate	7758-97-6* /**
Lead chromate molybdate sulphate	12656-85-8* /**
Lead sulfochromate	1344-37-2* /**
Pentazinc chromate octahydroxide	49663-84-5* /**
Potassium chromate	7789-00-6* /**
Potassium dichromate	7778-50-9* /**
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9* /**
Sodium chromate	7775-11-3* /**
Sodium dichromate dehydrate	7789-12-0*/**, 10588-01-9* /**
Strontium chromate	7789-06-2* /**
* = SVHC Liste, ** = CMR Fast Track	

Appendix O – Agriculturally related Pesticides and Herbicides	**CAS RN**
Each of below listed and/or several substances used in combination in farm-level production of natural fibres, primarily cotton.	
2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds; 2,4,5-TP	93-72-1
2,4,5-T	93-76-5
2,4-D	94-75-7
Aldrine	309-00-2
Azinophosmethyl	86-50-0
Azinophosethyl	2642-71-9
Bromophos-ethyl	4824-78-6
Captafol	2425-06-1
Carbaryl	63-25-2
Chlorbenzilat	510-15-6
Chlordane	57-74-9
Chlordimeform	6164-98-3
Chlorfenvinphos	470-90-6
Chlorthalonil	1897-45-6
Coumaphos	56-72-4
Cyfluthrin	68359-37-5
Cyhalothrin	91465-08-6
Cypermethrin	52315-07-8
S,S,S-Tributyl phosphorotrithioate (Tribufos)	78-48-8
Deltamethrin	52918-63-5
DDD	53-19-0
DDD	72-54-8
DDE	3424-82-6
DDE	72-55-9
DDT	50-29-3
DDT	789-02-6
Diazinone	333-41-5
Dichlofluanide	1085-98-9
Dichloroprop	120-36-5
Dicofol	115-32-2

Dicrotophos	141-66-2
Dieldrine	60-57-1
Dimethoate	60-51-5
Dinoseb, its salts and acetate	88-85-7
DTTB (4, 6-Dichloro-7 (2,4,5-trichloro- phenoxy) -2-Trifluoro methyl benz imidazole)	63405-99-2
Endosulfan	115-29-7
Endosulfan I (alpha)	959-98-8
Endosulfan II (beta)	33213-65-9
Endrine	72-20-8
Esfenvalerate	66230-04-4
Ethylendibromid	106-93-4
Ethylparathione; Parathion	56-38-2
Fenvalerate	51630-58-1
Halogenated naphthalenes, including polychlorinated naphthalenes (PCNs)	Various
Heptachlor	76-44-8
Heptachloroepoxide	1024-57-3
Hexabromobiphenyl	36355-01-8
a-Hexachlorocyclohexane with & without Lindane	319-84-6
b-Hexachlorocyclohexane with & without Lindane	319-85-7
g-Hexachlorocyclohexane with & without Lindane	319-86-8
Hexachlorobenzene	118-74-1
Isodrine	465-73-6
Kelevane	4234-79-1
Kepone	143-50-0
Lindane	58-89-9
Malathione	121-75-5
MCPA	94-74-6
MCPB	94-81-5
Mecoprop	93-65-2
Metamidophos	10265-92-6
Methoxychlor	72-43-5
Mirex	2385-85-5
Monocrotophos	6923-22-4
Parathion-methyl	298-00-0
Pentachloroanisole	1825-21-4
Phosdrin/Mevinphos	7786-34-7
Perthane	72-56-0
Propethamphos	31218-83-4
Profenophos	41198-08-7
Quinalphos	13593-03-8
Quintozene	82-68-8
Strobane	8001-50-1
Telodrine	297-78-9
Toxaphene	8001-35-2
Tolylfluanide	731-27-1
Trifluralin	1582-09-8