

SUITSUPPLY

SUISTUDIO

RESTRICTED SUBSTANCES LIST SUITSUPPLY

RSL version 1.0

January 2019

INTRODUCTION 1.0

The production of apparel from raw materials to finished products is a long process. It starts with fibres via spinning, weaving or knitting, bleaching, dyeing, printing, washing, cutting and sewing to a garment. The processes are not only mechanical but they can be considered as chemical intensive and complex.

SUITSUPPLY has committed itself to develop responsible chemical management procedures for all products, including accessories attached to garments, prints and packaging materials. SUITSUPPLY expects the same commitment from its suppliers and have therefore developed a Restricted Substances List (SUITSUPPLY RSL 1.0) to inform all suppliers on all chemicals that are banned or restricted in SUITSUPPLY's production processes and finished products. The purpose of a Restricted Substances List (RSL) is to reduce the use of hazardous substances in the textile and apparel supply chain.

Our RSL includes;

1. Worldwide legal requirements for textile products.
2. Attention points in requirements from Eco label organisations or mentioned by NGO's, like Greenpeace.

A valid OEKO-TEX® Standard 100 product certificate issued by the OEKO-TEX® Association (www.oeko-tex.com) covers most of the requirements of this RSL. The new OEKO-TEX® certification is called Sustainable Textile Production (STeP) (replacement of OEKO-TEX® Standard 1000) and has a wider scope: it covers also social and environmental aspects on the production site.

Please be prepared that your contact person could request a signature for each order to declare that the specific order complies with our RSL requirements. Also it can be possible that one of your styles will be selected for pre-delivery testing at a certified laboratory.

As matter of general principle, SUITSUPPLY reserves the right to select styles to be (counter) tested upon arrival in our warehouse. If this post-test is a "FAIL", all the cost incurred in this testing procedure shall be borne by the supplier, including all additional cost for non-marketable styles.

As a result of a dynamic process this RSL will be updated on a regular basis in order to assist in the development of responsible entrepreneurship and they can be used as a basis for the development of Quality Management Systems.

In case of any question, please contact Joy Roeterdink

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Corporate Social Responsibility Manager SUITSUPPLY

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Riskmatrix 1.0

CHEMICAL	NATURAL FIBERS	BLENDED FIBERS	SYNTHETIC FIBERS	ARTIFICIAL LEATHER (WITH FIBER BACKING)	NATURAL LEATHER	COATING AND PRINTS	NATURAL MATERIALS	POLYMERS, PLASTICS, FOAMS, NATURAL & SYNTHETIC RUBBER	METAL	FEATHER & DOWN	GLUE	
ALKYLPHENOLS AND ALKYPHENOL ETHOXYLATES	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●		●	●●●	
AZO DYES	●●●	●●●	●●●	●●●	●●●	●●●	●●●			●●●		
BIOCIDES	●	●	●	●	●	●		●				
CHLOROBENZENES AND CHLOROTOLUENES		●●	●●		●							
CHLORINATED PARAFFINS	●	●	●	●	●●●	●●		●●				
CHLORINATED PHENOLS PCP & TECP	●	●		●	●	●				●		
ALLERGENIC DISPERSE DYES		●●	●●	●●		●●						
CARCINOGENIC DYES	●●	●●	●●	●●		●●						
FLAME RETARDENTS	●	●	●	●	●	●	●	●●		●●		
FORMALDEHYDE	●●●	●●●	●●●	●●●	●●●	●●●	●●●				●●●	
HEAVY METALS EXTRACTABLE	●●	●●	●●	●●	●●	●●		●●				
CHROMIUM VI	●/wool				●●●							
HEAVY METALS TOTAL CONTENT LEAD & CADMIUM				●		●		●	●			
HEAVY METALS, RELEASABLE NICKLE									●●●			
ORGANOTIN COMPOUNDS	●	●	●	●	●	●		●			●	
PERFLUORINATED CHEMICALS PFOS & PFOA	●● (If water- or stain-repellant finish is applied)										●●	
PESTICIDES AGRICULTURAL	●●●	●●●			●●●							
PHTHALATES				●●●		●●●		●●●			●●●	
POLYCLIC AROMATIC HYDROCARBONS				●●●		●●●		●●●			●●●	
PVC						●●		●●				
SOLVENTS HALOGENATED AND OTHERS - VOLATILE ORGANIC COMPOUNDS	●●	●●	●●	●●	●●	●●		●●			●●	
pH	●●	●●	●●	●●	●●							

- indicate that a chemical has been in widespread use and/or frequently detected in a particular material.
- indicate that a chemical has been deliberately used and/or detected in a particular material occasionally.
- indicates there is a very low but theoretical chance that a chemical could be used and/or detected.
- No dot indicates that we believe there is an almost negligible risk of a chemical being used and/or detected.

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
ALKYLPHENOLS (AP) AND ALKYLPHENOL ETHOXYLATES (APEO)				
Nonylphenols (NP) Octylphenols (OP) Heptylphenol (HpP) Pentylphenol (PeP)	Various	Textiles: ISO 18254-1:2016 Leather: ISO 18218-1:2015	NP, OP, HpP, PeP: sum < 10 mg/kg	APEOs can be used as or found in detergents, scouring agents, spinning oils, wetting agents, softeners, emulsifying/dispersing agents for dyes and prints, impregnating agents, degumming for silk production, dyes and pigment preparations, polyester padding and down/feather fillings. APs are used as intermediaries in the manufacture of APEOs and antioxidants used to protect or stabilize polymers. Biodegradation of APEOs into APs is the main source of APs in the environment.
Nonylphenoethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0		OP, NP, HpP, PeP, NPEO and OPEO: sum < 100 mg/kg	
Octylphenoethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6			
ASBESTOS				
Actinolite	77536-66-4	REM/EDX BGI 505-46 or U.S. EPA/600/R-93/116	Usage ban not detected	Asbestos fibres are strong, durable and fire resistant consisting of silicate minerals. Unlikely to be used in everyday wear except for fire fighting. Asbestos fibres are carcinogenic
Amosite	12172-73-5			
Anthophyllite	77536-67-5			
Chrysotile	12001-29-5			
Crocidolite	12001-28-4			
Tremolite	77536-68-6			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
AZO DYES WHICH BY REDUCTIVE CLEAVAGE MAY RELEASE ONE OR MORE AROMATIC ARYLAMINES				
4-Aminobiphenyl	92-67-1	<p>Textiles: EN 14362-1:2017</p> <p>Leather: EN ISO 17234-1:2015</p> <p>Test Method for confirmation of 4-Aminoazobenzene (4AAB) Textiles (EU): EN 14362-3: 2017 Leather (EU): EN ISO 17234-2: 2011</p>	< 20 mg/kg	<p>Azo dyes and pigments are colourants that incorporate one or several azo groups (-N=N-) bound with aromatic compounds.</p> <p>Thousands of azo dyes exist, but only those which degrade to form the listed cleavable amines are restricted.</p> <p>Azo dyes that release these amines are regulated and should no longer be used for dyeing of textiles. The listed arylamines are considered to be carcinogenic.</p>
Benzidine	92-87-5			
4-Chloro-o-toluidine	95-69-2			
2-Naphtylamine	91-59-8			
o-Aminoazotoluene	97-56-3			
5-Nitro-o-toluidine	99-55-8			
4-Chloroaniline	106-47-8			
2,4-Diaminoanisole	615-05-4			
4,4'-Diaminodiphenylmethane (4,4'-MDA)	101-77-9			
3,3'-Dichlorobenzidine	91-94-1			
3,3'-Dimethoxybenzidine	119-90-4			
3,3'-Dimethylbenzidine	119-93-7			
4,4'-Methylenedi-o-toluidine	838-88-0			
p-Cresidine	120-71-8			
4,4'-Methylene-bis(2-chloraniline)	101-14-4			
4,4'-Oxydianiline	101-80-4			
4,4'-Thiodianiline	139-65-1			
o-Toluidine	95-53-4			
2,4-Toluenediamine (2,4-TDA)	95-80-7			
2,4,5-Trimethylaniline	137-17-7			
o-Anisidine (2-Methoxyaniline)	90-04-0			
4-Aminoazobenzene (4-AAB)	60-09-3			
2,4-Xylidine	95-68-1			
2,6-Xylidine	87-62-7			
Para-phenylenediamine (PPD)	106-50-3	Not detected Detection limit: 10 mg/kg		
Aniline	62-53-3	< 50 mg/kg		

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
BIOCIDES				
Dimethylfumarate	624-49-7	ISO/TS 16186: 2012 Extraction, GC-MS	Not detected Detection limit: 0.1 mg/kg	<p>Dimethyl fumarate (DMFu) is a fungicide used to prevent mould in leather and textiles. . Can be used in sachets in packaging to prevent the buildup of mold, especially during shipping.</p> <p>DMFu can cause acute dermatitis, eczema, and general fatigue to the persons who have been in contact with this substance.</p> <p>Can also be used as Pesticide.</p>
o-Phenylphenol (OPP)	90-43-7	<p>Extraction with KOH // § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015)</p> <p>For leather: ISO 13365 (2011)</p>	< 25 mg/kg	<p>o-Phenylphenol can be used for its preservative properties in leather or as a carrier in dyeing processes.</p> <p>Can irritate the skin and cause in contact with eye severe irritation and burns with possible eye damage.</p>
Triclosan (5-Chloro-2-(2,4-dichlorophenoxy)phenol)	3380-34-5	ISO 13365:2011, extraction with acetonitrile, 1h, RT, ultrasonic bath followed by GC-MS	Not detected Detection limit: 1 mg/kg	<p>Triclosan can be used as disinfectant and as antibacterial agent in textiles.</p> <p>Triclosan can damage the liver, kidneys, heart and lungs, suppresses the immune system.</p>

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
CHLOROBENZENES AND CHLOROTOLUENES				
Pentachlorobenzenes (PCB)	608-93-5	DIN 54232: 2010 followed by GC-MS	< 1 mg/kg (sum)	<p>These carriers are used in dyeing polyester and blends of wool and polyester as wool cannot be dyed at the high temperatures (130°C) required for dyeing polyester.</p> <p>Most of these carriers are toxic to humans and aquatic organisms, and some are even carcinogenic.</p>
Hexachlorobenzene (HCB)	118-741			
Trichlorobenzenes, all isomers	Several			
1,2,3-TriCB	87-61-6			
1,2,4-TriCB	120-82-1			
1,3,5-TriCB	108-70-3			
Tetrachlorobenzenes all isomers	Several			
1,2,3,4-TeCB	634-66-2			
1,2,3,5-TeCB	634-90-2			
1,2,4,5-TeCB	95-94-3			
Chlorobenzene	108-90-7			
Dichlorobenzenes, all isomers	Several			
1,2-DiCB	95-50-1			
1,3-DiCB	541-73-1			
1-4-DiCB	106-46-7			
Monochlorotoluenes all isomers	Several			
2-CT	95-49-8			
3-CT	108-41-8			
4-CT	106-43-4			
α-chlorotoluene; benzyl chloride	100-44-7			
Dichlorotoluenes all isomers	Several			
2,3-DiCT	32768-54-0			
2,4-DiCT	95-73-8			
2,5-DiCT	19398-61-9			
2,6-DiCT	118-69-4			
3,4-DiCT	95-75-0			
3,5-DiCT	25186-47-4			
Trichlorotoluenes all isomers	Several			
2,3,4-TRiCT	7359-72-0			
2,3,6-TRiCT	2077-46-5			
2,4,5-TRiCT	6639-30-1			
2,4,6-TRiCT	23749-65-7			
3,4,5-TRiCT	21472-86-6			
α,α,α-TRiCT; benzotrichloride	98-07-7			
Tetrachlorotoluenes all isomers	Several			
2,3,4,5-Tetrachlorotoluene	76057-12-0			
2,3,5,6-Tetrachlorotoluene	29733-70-8			
2,3,4,6-Tetrachlorotoluene	875-40-1			
α,α,α,4-TetraCT	5216-25-1			
Pentachlorotoluenes	877-11-2			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
CHLORINATED PARAFFINS				
Short-chain chlorinated paraffins (SCCP) (C10 - C13)	85535-84-8	EN ISO 18219: 2015	< 100 mg/kg	SCCP's and MCCP's used as flame retardants, in plasticizers, paints and adhesives. Can also be used for fat liquoring of leather. SCCP's and MCCP's may cause long-term adverse effects in the aquatic environment.
Medium chain chlorinated paraffin (MCCP) (C14 - C17)	85535-85-9			
CHLOROPHENOLS				
Pentachlorophenol (PCP)	87-86-5	Extraction with KOH followed by GC-MS* *In case of results close to limit value (+/- 10 %) re-test with reference method: §64 LFGB BVL B 82.02-8 (2001) (for textiles) or ISO 17070 (2015) (for leather)	< 0.5 mg/kg	Chlorophenols are polychlorinated compounds used to preserve wood, leather, and textiles. Chlorophenols are irritants to the skin, eyes and mouth and can cause harmful effects to the liver, kidneys, blood and lungs and are probable human carcinogens.
Tetrachlorophenols	25167-83-3			
2,3,5,6- Tetrachlorophenol (TeCP)	935-95-5			
2,3,4,6- Tetrachlorophenol (TeCP)	58-90-2			
2,3,4,5- Tetrachlorophenol (TeCP)	4901-51-3			
Trichlorophenols	25167-82-2		< 2.0 mg/kg	
2,3,4-Trichlorophenol (TrCP)	15950-66-0			
2,3,5-Trichlorophenol (TrCP)	933-78-8			
2,3,6-Trichlorophenol (TrCP)	933-75-5			
2,4,5-Trichlorophenol (TrCP)	95-95-4			
2,4,6-Trichlorophenol (TrCP)	88-06-2		< 3.0 mg/kg	
3,4,5-Trichlorophenol (TrCP)	609-19-8			
Dichlorophenols	25167-81-1			
2,3-Dichlorophenol (DCP)	576-24-9			
2,4-Dichlorophenol (DCP)	120-83-2			
2,5-Dichlorophenol (DCP)	583-78-8			
2,6-Dichlorophenol (DCP)	87-65-0			
3,4-Dichlorophenol (DCP)	95-77-2			
3,5-Dichlorophenol (DCP)	591-35-5			
Monochlorophenols	25167-80-0			
2-Chlorophenol (MCP)	95-57-8			
3-Chlorophenol (MCP)	108-43-0			
4-Chlorophenol (MCP)	106-48-9			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
DISPERSE DYES WHICH ARE CLASSIFIED TO BE ALLERGENIC				
C.I. Disperse Blue 1	2475-45-8	DIN 54231: 2005 §64 LFGB B82.02-10	< 50 mg/kg	<p>Disperse dyes are a class of water- insoluble dyes that penetrate the fibre system of synthetic or manufactured fibres and are held in place by physical forces without forming chemical bonds.</p> <p>They are mainly used for dyeing polyester, nylon and cellulose acetate.</p> <p>Some disperse dyes have an allergenous potential to the human skin and are a possible threat to health, especially if the dyes are not colour fast to perspiration.</p> <p>A number of disperse dyes are legally restricted outside the EU.</p> <p>Most of them appear in RSL's of international retailers.</p>
C.I. Disperse Blue 3	2475-46-9			
C.I. Disperse Blue 7	3179-90-6			
C.I. Disperse Blue 26	3860-63-7			
C.I. Disperse Blue 35	12222-75-2			
C.I. Disperse Blue 102	12222-97-8			
C.I. Disperse Blue 106	12223-01-7			
C.I. Disperse Blue 124	61951-51-7			
C.I. Disperse Brown 1	23355-64-8			
C.I. Disperse Orange 1	2581-69-3			
C.I. Disperse Orange 3	730-40-5			
C.I. Disperse Orange 37/59/76	12223-33-5 13301-61-6			
C.I. Disperse Red 1	2872-52-8			
C.I. Disperse Red 11	2872-48-2			
C.I. Disperse Red 17	3179-89-3			
C.I. Disperse Yellow 1	119-15-3			
C.I. Disperse Yellow 3	2832-40-8			
C.I. Disperse Yellow 9	6373-73-5			
C.I. Disperse Yellow 39	12236-29-2			
C.I. Disperse Yellow 49	54824-37-2			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
DYES WHICH ARE CLASSIFIED TO BE CARCINOGENIC				
C.I. Acid Red 26	3761-53-3	DIN 54231: 2005 §64 LFGB B82.02-10	< 50 mg/kg	According to the Commission Decision these dyestuffs are not allowed in products bearing the EU Eco-label because they are considered to be carcinogenic.
C.I. Acid Red 114	6459-94-5			
C.I. Basic Blue 26 (with ≥ 0.1 % Michler's ketone or base)	2580-56-5			
C.I. Basic Red 9	569-61-9			
C.I. Basic Violet 3 (with ≥ 0.1 % Michler's ketone or base)	548-62-9			
C.I. Basic Violet 14	632-99-5			
C.I. Direct Black 38	1937-37-7			
C.I. Direct Blue 6	2602-46-2			
C.I. Direct Blue 15	2429-74-5			
C.I. Direct Brown 95	16071-86-6			
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 Yellow 3	2832-40-8			
C.I. Pigment Red 104	12656-85-8			
C.I. Pigment Yellow 34	1344-37-2			
C.I. Solvent Yellow 1 (Aniline Yellow)	60-09-3			
C.I. Solvent Yellow 3 (o-Aminoazotoluene)	97-56-3			
DYES WHICH ARE ADDITIONALLY RESTRICTED				
C.I. Disperse Navy Blue Component 1: Component 2:	118685-33-9	DIN 54231: 2005 §64 LFGB B82.02-10	< 50 mg/kg	These dyestuffs are considered to be carcinogenic, harmful to the environment, or can cause allergic reactions.
C.I. Disperse Orange 149	85136-74-9			
C.I. Disperse Yellow 23	6250-23-3			
C.I. Basic Green 4 (oxalate, chloride or free)	2437-29-8, 569-64-2, 10309-95-2			
4-chloro-o-toluidinium chloride	3165-93-3	EN ISO 14362-1:2017	< 30 mg/kg	
2-Naphthylammoniumacetate	553-00-4			
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7			
2,4,5-trimethylaniline hydrochloride	21436-97-5			

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FLAME RETARDENTS				
Polybrominated biphenyls (PBBs)	59536-65-1	ISO 17881-1 (2016) for brominated flame retardants ISO 17881-2 (2016) for phosphorus flame retardants	Not detected Detection limit: 5 mg/kg	<p>Flame-retardant chemicals, including the entire class of Organohalogen flame retardants, should no longer be used.</p> <p>These types of flame retardants are toxic and are suspected to be carcinogenic.</p> <p>They persist in the environment and food chain, and are likely to pass up the food chain. Flame retardants are often applied to consumer products including textiles, plastics, foams.</p>
Monobromobiphenyls (MonoBB)	Various			
Dibromobiphenyls (DiBB)	Various			
Tribromobiphenyls (TriBB)	Various			
Tetrabromobiphenyls (TetraBB)	Various			
Pentabromobiphenyls (PentaBB)	Various			
Hexabromobiphenyls (HexaBB)	Various			
Heptabromobiphenyls (HeptaBB)	Various			
Octabromobiphenyls (OctaBB)	Various			
Nonabromobiphenyls (NonaBB)	Various			
Decabromobiphenyl (DecaBB)	13654-09-06			
Polybrominated diphenyl ethers (PBDEs)	Various			
Monobromodiphenylethers (MonoBDEs)	Various			
Dibromodiphenylethers (DiBDEs)	Various			
Tribromodiphenylethers (TriBDEs)	Various			
Tetrabromodiphenylethers (TetraBDEs)	Various, 40088-97-1			
Pentabromodiphenylethers (PentaBDEs)	Various, 32534-81-9			
Hexabromodiphenylethers (HexaBDEs)	Various, 36483-60-0			
Heptabromodiphenylethers (HeptaBDEs)	Various, 68928-80-3			
Octabromodiphenylethers (OctaBDEs)	Various, 32536-52-0			
Nonabromodiphenylethers (NonaBDEs)	Various, 63936-56-1			
Decabromodiphenylether (DecaBDE)	1163-19-5			
Tri(2,3-dibromopropyl)phosphate (TRIS)	126-72-2			
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8			
Hexabromocyclododecane and all main diastereomeres identified (alpha-, beta-, gamma-) (HBCDD)	various 3194-55-6 134237-50-6 134237-51-7 134237-52-8 25637-99-4			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
FLAME RETARDENTS CONTINUED				
Tetrabromobisphenol A (TBBPA)	79-94-7	ISO 17881-1 (2016) for brominated flame retardants ISO 17881-2 (2016) for phosphorus flame retardants	Not detected Detection limit: 5 mg/kg	Flame-retardant chemicals, including the entire class of Organohalogen flame retardants, should no longer be used. These types of flame retardants are toxic and are suspected to be carcinogenic. They persist in the environment and food chain, and are likely to pass up the food chain. Flame retardants are often applied to consumer products including textiles, plastics, foams.
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9			
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0			
Tris(1,3-dichloro-iso-propyl)phosphate (TDCPP)	13674-87-8			
Tris(aziridinyl)phosphin oxide (TEPA)	545-55-1			
Diboron trioxide	1303-86-2			
Disodium tetraborate, anhydrous	1303-96-4 1330-43-4			
Disodium octaborate	12008-41-2			
Tetraboron disodium heptaoxide, hydrate	12267-73-1			
Trixylylphosphate / Trixylylphosphat (TXP)	25155-23-1			
Boric Acid	10043-35-3 11113-50-1	Acid digestion followed by ICP analysis		
FORMALDEHYDE				
Formaldehyde	50-00-0	ISO 14184-1: 2011 (Textiles) ISO 17226-2: 2008 (Leather)	< 75mg/kg Jackets and coats: < 300 mg/kg	Formaldehyde can be used as one of the starting materials in auxiliaries imparting textile performance such as wrinkle free, dimensional stability, and stain resistant characteristics to cotton and cotton blend fabrics. Formaldehyde can be found in resins, binders and fixing agents for dyes and pigments (especially those with fluorescent effects). It can also be used as a catalyst in certain printing, adhesive and heat transfer processes. Classified in the EU as ""carcinogenic from category 1B and mutagen category 2"".

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
HEAVY METALS EXTRACTABLE				
Arsenic (As)	7440-38-2	Textiles and others: EN 16711-1 2016 (acidic sweat solution) Leather: ISO 17072-2 -2 2011 (acidic sweat solution) **No requirement for accessories and yarns made from inorganic materials, respecting the requirements regarding biological active products	< 1.0 mg/kg	Arsenic and its compounds can be used in preservatives, pesticides, and defoliant for cotton, synthetic fibers, paints, inks, trims, and plastics.
Chromium (Cr)	7440-47-3		< 2.0 mg/kg	Chromium compounds can be used as dyeing additives; dye-fixing agents; color-fastness after- treatments; dyes for wool, silk, and polyamide (especially dark shades); and leather tanning.
Cobalt (Co)	7440-48-4		< 4.0 mg/kg	Cobalt and its compounds can be used in alloys, pigments, dyestuff, and the production of plastic buttons.
Copper (Cu)	7440-50-8		< 50.0 mg/kg**	Copper and its compounds can be found in alloys and pigments, and in textiles as an antimicrobial agent.
Lead (Pb)	7439-92-1		< 1.0 mg/kg	Lead may be associated with plastics, paints, inks, pigments and surface coatings.
Nickel (Ni)	7440-02--0		< 4.0 mg/kg	Nickel and its compounds can be used for plating alloys and improving corrosion-resistance and hardness of alloys. They can also occur as impurities in pigments and alloys.
Antimony (Sb)	7440-36-0		< 30 mg/kg	Antimony can be found in or used as a catalyst in polymerization of polyester, flame retardants, fixing agents, pigments, and alloys.
Cadmium (Cd)	7440-43-9		< 0.1 mg/kg	Cadmium compounds are used as pigments (especially in red, orange, yellow and green); as a stabilizer for PVC; and in fertilizers, biocides, and paints.
Mercury (Hg)	7439-97-6		< 0.02 mg/kg	Mercury compounds can be present in pesticides and as contaminants in caustic soda (NaOH). They may also be used in paints.
Barium (Ba)	7440-39-3		< 1000 mg/kg	Barium and its compounds can be used in pigments for inks, plastics, and surface coatings, as well as in dyeing, mordants, filler in plastics, textile finishes, and leather tanning.
Selenium (Se)	7782-49-2	< 100 mg/kg	May be found in synthetic fibres, paints, inks, plastics and metal trims.	
APPLICABLE FOR LEATHER AND TEXTILE ITEMS (f.e. WOOL)				
Chromium VI (Cr VI)	18540-29-9	EN ISO 17075-1:2017 after aging, aging conditions: 24 H/ 80 degrees C./ 5% humidity. § 64 LFGB 82.02 - 11 (2008)	Leather: < 3 mg/kg Textiles: < 0.5 mg/kg	Many heavy metals are bio accumulative when absorbed by the human body through perspiration and give cause for concern in health terms such as chronic toxicity, allergenic reactions and cancer

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
HEAVY METALS, TOTAL CONTENT				
Cadmium and its compounds	7440-43-9	Textiles and others: EN 16711-1 2016 (total content) Leather: ISO 17072-2 -2 2011 (total content)	< 40mg/kg	Many heavy metals are bio accumulative when absorbed by the human body through perspiration and give cause for concern in health terms such as chronic toxicity, allergenic reactions and cancer. Cadmium may be associated with pigments (especially in red, orange, yellow and green); as an alloy in metal; as a stabilizer for PVC; and in fertilizers, biocides and paints. Lead may be associated with metal parts, plastics, paints, inks, pigments and surface coatings. The result of the total content test indicates the quantity of metal that is a part of the plastic leather or textile material.
Lead and its compounds	7439-92-1		< 90 mg/kg	
HEAVY METALS, RELEASABLE NICKEL				
Nickel	7440-02-0	Nickel release EN 1811: 2011 + A1: 2015 and Abrasion of coated items EN 12472: 2005 + A1: 2009	0.5 µg/cm ² /week	Nickel and its compounds can be used for plating alloys and improving corrosion-resistance and hardness of alloys. Nickel can cause extreme allergies and is released through skin contact.
ORGANOTIN COMPOUNDS				
Tributyltin (TBT)	56573-85-4	EN ISO/TS 16179: 2012	< 1 mg/kg	Organotins are a class of chemicals combining tin and organics such as butyl and phenyl groups. They are predominantly found in the environment as antifoulants in marine paints, but they can also be used as biocides (e.g., antibacterials to prevent unpleasant odours), catalysts in plastic, for glue production, and as heat stabilizers in plastics/rubber. In textiles and apparel, organotins are associated with plastics/rubber, inks, paints, metallic glitter, polyurethane products and heat transfer material. They can cause damage to liver, kidneys, blood forming processes and disruption of the enzyme system particularly harmful to children.
Triphenyltin (TPhT)	668-34-8			
Dibutyltin (DBT)	14488-53-0			
Diocetyl tin (DOT)	15231-44-4 3542-36-7			
Monooctyltin (MOT)	3091-25-6			
Monomethyltin (MMT)	23001-26-5			
Monophenyltin (MPhT)	2406-68-0			
Diphenyltin (DPhT)	1011-95-6			
Dimethyltin (DMT)	753-73-1			
Dipropyltin (DPT)	867-36-7			
Monobutyltin (MBT)	78763-54-9			
Tricyclohexyltin (TCyHT)	3091-32-5			
Trioctyltin (TOT)	2587-76-0			
Tripropyltin (TPT)	2279-76-7			
Trimethyltin (TMT)	1066-45-1			
Tetraethyltin (TeET)	597-64-8			
Tetrabutyltin (TebT)	1461-25-2			
			< 2 mg/kg	

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
OTHER CHEMICAL RESIDUES				
Quinoline	91-22-5	Extraction with Toluene followed by GC-MS	< 50 mg/kg	Quinolines are used in the manufacture of dyes.
Bisphenol A (4,4'- Isopropylidenediphenol) (BPA)	80-05-7	Solvent extraction followed by LC-MS/MS	< 0.1% (< 1000 mg/kg)	Bisphenol A (BPA) is used in the production of epoxy resins and plastics. Bisphenol A can be contained in plastic materials and plastisol print, for example.
Diazene-1,2-dicarboxamide (ADCA)	123-77-3		< 0.1% (< 1000 mg/kg)	Diazene-1,2-dicarboxamide can be used specifically for the production of foams, thermoplastics and epoxy resins as blowing agent.
PERFLUORINATED CHEMICALS AND HER COMPOUNDS				
Perfluorooctanesulfonates (PFOS)	Various	CEN/TS 15968: 2014	Sum < 1 µg / m ²	<p>PFOS can be used as impregnation agents and cleaning products. PFOS is persistent, bioaccumulative, poisonous and possibly carcinogenic.</p> <p>PFOA is mainly used as a surfactant and have the same risk profile as PFOS.</p>
Perfluorooctane acids (PFOA)	Various			
Perfluorooctane sulfonamide (PFOSA)	754-91-6			
Perfluorooctane sulfonfluoride (PFOSF / POSF)	307-35-7			
N-Methyl perfluorooctane sulfonamide (N-Me-FOSA)	31506-32-8			
N-Ethyl perfluorooctane sulfonamide (N-Et-FOSA)	4151-50-2			
N-Methyl perfluorooctane sulfonamide ethanol (N-Me-FOSE)	24448-09-7			
N-Ethyl perfluorooctane sulfonamide ethanol (N-Et-FOSE)	1691-99-2		< 0.1 mg/kg	
Perfluoroheptanoic acid (PFHpA)	Various			
Perfluorononanoic acid (PFNA)	Various			
Perfluorodecanoic acid (PFDA)	Various			
Henicosfluoroundecanoic acid (PFUdA)	2058-94-8			
Tricosfluorododecanoic acid (PFDoA)	307-55-1			
Pentacosfluorotridecanoic acid (PFTrDA)	72629-94-8			
Heptacosfluorotetradecanoic acid (PFTeDA)	376-06-7			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
PESTICIDES				
2,4,5-T	93-76-5	ASE or Soxhlet Extraction with Acetone/Hexane // GC-MS or LC-MC	Sum 1.0 mg/kg	<p>A pesticide may be a chemical substance, biological agent (such as a virus or bacteria), antimicrobial, disinfectant or device used against any pest.</p> <p>Pesticides also have drawbacks: potential toxicity to humans and animals.</p> <p>In textiles and apparel, these pesticides may be found in natural fibres, primarily cotton.</p>
2,4-D	94-75-7			
Acetamiprid	135410-20-7 160430-64-8			
Aldicarb	116-06-3			
Aldrine	309-00-2			
Azinophosethyl	2642-71-9			
Azinophosmethyl	86-50-0			
Bromophos-ethyl	4824-78-6			
Captafol	2425-06-1			
Carbaryl	63-25-2			
Chlorbenzilate	510-15-6			
Chlordane	57-74-9			
Chlordimeform	6164-98-3			
Chlorfenvinphos	470-90-6			
Clothianidin	210880-92-5			
Coumaphos	56-72-4			
Cyfluthrin	68359-37-5			
Cyhalothrin	91465-08-6			
Cypermethrin	52315-07-8			
DEF	78-48-8			
Deltamethrin	52918-63-5			
DDD	53-19-0 72-54-8			
DDE	3424-82-6 72-55-9			
DDT	50-29-3			
Diazinon	333-41-5			
Dichlorprop	120-36-2			
Diclotophos	141-66-2			
Dieldrine	60-57-1			
Dimethoate	60-51-5			
Dinoseb and salts	88-85-7			
Dinotefuran	165252-70-0			
Endosulfan, α-	959-98-8			
Endosulfan, β-	33213-65-9			
Endrine	72-20-8			
Esfenvalerate	66230-04-4			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
PESTICIDES CONTINUED				
Fenvalerate	51630-58-1	ASE or Soxhlet Extraction with Acetone/Hexane // GC-MS or LC-MC	Sum 1.0 mg/kg	<p>A pesticide may be a chemical substance, biological agent (such as a virus or bacteria), antimicrobial, disinfectant or device used against any pest.</p> <p>Pesticides also have drawbacks: potential toxicity to humans and animals.</p> <p>In textiles and apparel, these pesticides may be found in natural fibres, primarily cotton.</p>
Heptachlorine	76-44-8			
Heptachloroepoxide	1024-57-3 28044-83-9			
Hexachlorobenzene	118-74-1			
Hexachlorocyclohexane, α-	319-84-6			
Hexachlorocyclohexane, β-	319-85-7			
Hexachlorocyclohexane, δ-	319-86-8			
Imidacloprid	105827-78-9, 138261-41-3			
Isodrine	465-73-6			
Kelevane	4234-79-1			
Kepone	143-50-0			
Lindane	58-89-9			
Malathion	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			
Nitenpyram	150824-47-8 120738-89-8			
Parathion	56-38-2			
Parathion-methyl	298-00-0			
Perthane	72-56-0			
Phosdrin/Mevinphos	7786-34-7			
Phosphamidone	13171-21-6			
Propethamphos	31218-83-4			
Profenophos	41198-08-7			
Strobane	8001-50-1			
Quinalphos	13593-03-8			
Telodrine	297-78-9			
Thiacloprid	111988-49-9			
Thiamethoxam	153719-23-4			
Toxaphene	8001-35-2			
Trifluralin	1582-09-8			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
PHthalATES				
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	ISO 14389: 2014	The sum of all Phthalates <1000 mg/kg	<p>Esters of ortho-phthalic acid (Phthalates) are a class of organic compound commonly added to plastics to increase flexibility. They are sometimes used to facilitate the moulding of plastic by decreasing its melting temperature.</p> <p style="text-align: center;">Phthalates can be found in:</p> <ul style="list-style-type: none"> • Flexible plastic components (e.g., PVC) <ul style="list-style-type: none"> • Print pastes • Adhesives • Plastic buttons • Plastic sleeves • Polymeric coatings <p>The listed Phthalates are those most commonly used and regulated across industry sectors. Find more information about additional Phthalates on the REACH substances of very high concern (SVHC) candidate list, which is updated frequently.</p> <p>Phthalates are reprotoxic and can cause birth defects and changes in hormone levels.</p>
Dibutyl phthalate (DBP)	84-74-2			
Butylbenzyl phthalate (BBP)	85-68-7			
Di-“isononyl” phthalate (DINP)	28553-12-0 68515-48-0			
Di-“isodecyl phthalate (DIDP)	26761-40-0 68515-49-1			
Di-n-octyl phthalate (DNOP)	117-84-0			
Di-isobutyl phthalate (DIBP)	84-69-5			
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0			
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6			
Di-isopentylphthalate (DIPP)	605-50-5			
Dipentyl phthalate (DPP)	131-18-0			
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8			
Di-n-hexyl phthalate (DnHP)	84-75-3			
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	68515-42-4			
N-pentyl-isopentyl phthalate (NPIPP)	776297-69-9			
1,2- Benzenedicarboxylic acid. Dihexyl ester. Branched and linear (DHxP)	68515-50-4			
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1			
Di-iso-hexylphthalate (DIHxP)	71850-09-4			
Di-cyclohexylphthalate (DCHP)	84-61-7			
Diethyl phthalate (DEP)	84-66-2			
Di-n-propylphthalate (DPrP)	131-16-8			
Dimethyl phthalate (DMP)	131-11-3			
Di-iso-octyl phthalate (DIOP)	27554-26-3			
Di-n-nonyl phthalate (DNP)	84-76-4			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
POLYCYCLIC AROMATIC HYDROCARBONS (PAH'S)				
Benzo(a)pyrene [BaP]	50-32-8	AfPS GS 2014:01 PAH	< 1.0 mg/kg each	<p>PAHs are natural components of crude oil and are common residues from oil refining. PAHs have a characteristic smell similar to that of car tires or asphalt.</p> <p>Oil residues containing PAHs are added to rubber and plastics as a softener or extender and may be found in rubber, plastics, lacquers and coatings. PAHs are often found in the outsoles of footwear and in printing pastes for screen prints. PAHs can be present as impurities in Carbon Black. They also may be formed from thermal decomposition of recycled materials during reprocessing.</p> <p>Rubber or plastic components that come into direct and prolonged contact with the human skin or the oral cavity can cause severe allergic reactions.</p>
Benzo(a)anthracene	56-55-3			
Chrysene	218-01-9			
Benzo(b)fluoranthene	205-99-2			
Benzo(k)fluoranthene	207-08-9			
Dibenzo(ah)anthracene	53-70-3			
Benzo(e)pyrene	192-97-2			
Benzo(j)fluoranthene	205-82-3			
Acenaphthene	83-32-9			
Acenaphthylene	208-96-8			
Antracene	120-12-7			
Benzo(ghi)perylene	191-24-2			
Fluoranthene	206-44-0			
Fluorene	86-73-7			
Indeno(1,2,3-cd)pyrene	193-39-5			
Naphthalene	91-20-3			
Phenanthrene	85-01-8			
Pyrene	129-00-0			
Cyclopenta[c,d]pyrene	27208-37-3			
Dibenzo[a,e]pyrene	192-65-4			
Dibenzo[a,h]pyrene	189-64-0			
Dibenzo[a,i]pyrene	189-55-9			
Dibenzo[a,l]pyrene	191-30-0			
1-Methylpyrene	2381-21-7		The sum of 24 PAH's ≤ 10 mg/kg	

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
PVC				
Polyvinylchloride	9002-86-2	Beilstein test/Infrared Spectroscopy (FTIR)	Usage ban	The use of PVC is voluntarily restricted because it is claimed that dioxins are produced as a byproduct of vinyl chloride manufacture and from burning of waste PVC
RESTRICTION ON PACKAGING				
Cadmium (Cd)	Various	CEN/TR 13695-1 Acid digestion with ICP analysis	The sum of concentration levels of lead, cadmium, mercury and hexavalent chromium present in packaging or packaging components shall not exceed 100 mg/kg	Packaging means transportation packaging as well as product packaging, i.e., any material used for the containment, protection, handling, delivery, and presentation of finished goods (article).
Lead (Pb)				
Chromium (Cr6+)— hexavalent				
Mercury (Hg)				
SILOXANES				
Octamethylcyclotetrasiloxane (D4)	556-67-2	Solvent extraction, GC-MS analysis	< 1000 mg/kg	From today's point of view the siloxanes can be relevant for silicones, silicone finishing, silicone coatings, silicone prints, softener relevant samples, samples with soft gripe, water, soil or oil repellent finish, etc.
Decamethylcyclopentasiloxane (D5)	541-02-6			
Dodecamethylcyclohexasiloxane (D6)	540-97-6			
SOLVENTS - VOLATILE ORGANIC COMPOUNDS				
Benzene	71-43-2	Head space GC-MS	< 5 mg/kg	These VOCs should not be used in textile auxiliary chemical preparations. They are also associated with solvent-based processes such as solvent-based polyurethane coatings and glues/adhesives. They should not be used for any kind of facility cleaning or spot cleaning.
Chloroform	67-66-3			
Carbon tetrachloride	56-23-5			
Methylene chloride	75-09-2			
Toluene	108-88-3			
Styrene	100-42-5		< 10 mg/kg	
Naphthalene	91-20-3			
1,1,1-Trichloroethane	71-55-6			
1,1,2-Trichloroethane	79-00-5			
1,1,1,2-Tetrachloroethane	630-20-6			
1,1,2,2-Tetrachloroethane	79-34-5			
Pentachloroethane	76-01-7			
1,1-Dichloroethylene	75-35-4			
Trichloroethylene	79-01-6			
Tetrachloroethylene	127-18-4			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
SOLVENTS - VOLATILE ORGANIC COMPOUNDS CONTINUED				
Ethylbenzene	100-41-4	Head space GC-MS	< 20 mg/kg	<p>These VOCs should not be used in textile auxiliary chemical preparations.</p> <p>They are also associated with solvent-based processes such as solvent-based polyurethane coatings and glues/adhesives.</p> <p>They should not be used for any kind of facility cleaning or spot cleaning.</p>
Xylenes (ortho, meta, para)	1330-20-7 95-47-6 108-38-3 106-42-3			
Cresols (ortho, meta, para)	95-48-7 106-44-5 108-39-4			
Acetophenone	98-86-2			
2-Ethoxyethanol	110-80-5		< 50 mg/kg	
2-Methoxyethanol	109-86-4			
1,2-Dimethoxyethane (DME)	110-71-4			
2-Methoxyethyl acetate	110-49-6			
2-Methoxypropyl acetate	70657-70-4			
Triethylene glycol dimethyl ether (TEGDME)	112-49-2			
Phenol	108-95-2			
Cyclohexanone	108-94-1			
Methyl-Ethyl-Ketone (MEK)	78-93-3		< 100 mg/kg	
Formamide	75-12-7		< 200 mg/kg	
DMAC (N,N-dimethylacetamide)	127-19-5		< 500 mg/kg	
DMFa (N,N Dimethylformamide)	68-12-2			
NMP (2-Phenyl-2-propanole)	617-94-7		< 1000 mg/kg	
1,2-Dichloroethane	107-06-2			
1,2,3-Trichloropropane	96-18-4			
2-Ethoxyethyl acetate	111-15-9			
Bis-(2-methoxyethyl) ether	111-96-6			

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SUBSTANCE	CAS NUMBER	TEST METHOD	SUITSUPPLY RESTRICTED LIMIT	RELEVANCE OF RESTRICTION
UV STABILIZERS				
UV-320 2-benzotriazol-2-yl-4,6-di-tert- butylphenol	3846-71-7	Solvent Extraction Hexane/ Dichloroethane (1:1), GC-MS analysis	0.1% w/w	UV inhibitors may be used in a variety of polymer formulations to control discoloration or physical property changes induced by UV light
UV-327 2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol	3864-99-1			
UV-328 2-(2H-benzotriazol-2-yl)-4,6- bis(1,1-dimethylpropyl)phenol	25973-55-1			
UV-350 2-(2H-Benzotriazol-2-yl)-4-(tert- butyl)-6-(sec-butyl)phenol	36437-37-3			
OTHER ATTENTION POINTS				
pH value for textiles		ISO 3071: 2005	Skin contact: 4.0 – 7.5 No skin contact: 4.0 - 9.0	pH is a measure of the acidity or basicity of a solution. A solution with pH is 7 is neutral. pH values that do not fall within the specified limits can cause skin irritation
Odour		SNV 195651: 1968	No abnormal odour allowed. If odour rating > 3, VOC test to be performed	

REACH ANNEX: ECHA'S CANDIDATE LIST OF SUBSTANCES OF VERY HIGH CONCERN LAST UPDATE 27-06-2018
NUMBER OF SUBSTANCES ON THE CANDIDATE LIST: 191

Substances, preparations and articles will be assessed on their risks for health and environmental aspects

Any producer or importer of SUITSUPPLY articles shall submit a notification to SUITSUPPLY for any substance contained in those articles, if the following condition is met:

A substance of the candidate list is present in the imported/produced articles with over 0.1% w/w (>1000 mg/kg). (European Court of Justice judgement of 10-09-2015 case C-106/14 referring to every constituent part of the article)

[Candidate List of Substances of Very High Concern for authorisation](#)

The identification of a substance as Substance of Very High Concern (SVHC) and its inclusion in the Candidate List is the first step of the authorisation procedure.

Companies may have immediate legal obligations following such inclusion which are linked to the listed substance on its own, in preparations and articles.

Further documentation or more detailed information on the identification process of Substances of Very High Concern can be found on the web pages of ECHA's Member State Committee.

Note: The EC number includes both anhydrous and hydrated forms of a substance and consequently the entries cover both these forms. The CAS number included may be for the anhydrous form only, and therefore the CAS number shown does not always describe the entry accurately.

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
1	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride	552-30-7	2018/06/27	Respiratory sensitising properties (Article 57(f) - human health)
2	Benzo[ghi]perylene	191-24-2	2018/06/27	PBT (Article 57d) vPvB (Article 57e)
3	Decamethylcyclopentasiloxane	541-02-6	2018/06/27	PBT (Article 57d) vPvB (Article 57e)
4	Dicyclohexyl phthalate (DCHP)	84-61-7	2018/06/27	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)
5	Disodium octaborate	12008-41-2	2018/06/27	Toxic for reproduction (Article 57c)
6	Dodecamethylcyclohexasiloxane	540-97-6	2018/06/27	PBT (Article 57d) vPvB (Article 57e)
7	Ethylenediamine	107-15-3	2018/06/27	Respiratory sensitising properties (Article 57(f) - human health)
8	Lead	7439-92-1	2018/06/27	Toxic for reproduction (Article 57c)
9	Octamethylcyclotetrasiloxane	556-67-2	2018/06/27	PBT (Article 57d) vPvB (Article 57e)
10	Terphenyl, hydrogenated	61788-32-7	2018/06/27	vPvB (Article 57e)
11	Benz[a]anthracene	56-55-3, 1718-53-2	2018/01/15	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
12	Cadmium carbonate	513-78-0	2018/01/15	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
13	Cadmium hydroxide	21041-95-2	2018/01/15	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
14	Cadmium nitrate	10022-68-1 10325-94-7	2018/01/15	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
15	Chrysene	218-01-9 1719-03-5	2018/01/15	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
16	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 ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination there of]	-	2018/01/15	vPvB (Article 57e)
17	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	2018/01/15	Endocrine disrupting properties (Article 57(f) - environment)
18	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	2017/07/07	vPvB (Article 57 e)
19	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	2017/01/12	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
20	4-heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	2017/01/12	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
21	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3830-45-3 3108-42-7 335-76-2	2017/01/12	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
22	p-(1,1-dimethylpropyl)phenol	80-46-6	2017/01/12	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
23	Benzo(def)chrysene	50-32-8	2016/20/06	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); PBT (Article 57 d); vPvB (Article 57 e)
24	1,3-propanesultone	1120-71-4	2015/12/15	Carcinogenic (Article 57a);
25	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	2015/12/15	vPvB (Article 57 e)
26	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	2015/12/15	vPvB (Article 57 e)
27	Nitrobenzene	98-95-3	2015/12/15	Toxic for reproduction (Article 57c)
28	Perfluorononan-1-oi-c-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	2015/12/15	Toxic for reproduction (Article 57c); PBT (Article 57 d)
29	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	2015/06/15	Toxic for reproduction (Article 57 c)

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
30	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	2015/06/15	vPvB (Article 57e)
31	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	2014/12/17; 2008/10/28	Equivalent level of concern having probable serious effects to the environment (Article 57 f); Toxic for reproduction (article 57c)
32	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	2014/12/17	Toxic for reproduction (Article 57 c)
33	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	2014/12/17	PBT (Article 57 d); vPvB (Article 57 e)
34	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	2014/12/17	Toxic for reproduction (Article 57 c)
35	Cadmium fluoride	7790-79-6	2014/12/17	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
36	Cadmium sulphate	10124-36-4 31119-53-6	2014/12/17	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
37	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	2014/12/17	PBT (Article 57 d); vPvB (Article 57 e)
38	Cadmium chloride	10108-64-2	2014/06/16	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
39	Sodium peroxometaborate	.7632-04-4	2014/06/16	Toxic for reproduction (Article 57 c)
40	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	2014/06/16	Toxic for reproduction (Article 57 c)
41	Sodium perborate; perboric acid, sodium salt	-	2014/06/16	Toxic for reproduction (Article 57 c)
42	Trixylyl phosphate	25155-23-1	2013/12/16	Toxic for reproduction (Article 57 c);
43	Lead di(acetate)	301-04-2	2013/12/16	Toxic for reproduction (Article 57 c);
44	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	2013/12/16	Toxic for reproduction (Article 57 c);
45	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	2013/12/16	Carcinogenic (Article 57a);
46	Cadmium sulphide	1306-23-6	2013/12/16	Carcinogenic (Article 57a);
47	Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	2013/12/16	Carcinogenic (Article 57a);
48	Dihexyl phthalate	84-75-3	2013/12/16	Toxic for reproduction (Article 57 c);
49	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	2013/06/20	Toxic for reproduction (Article 57 c);
50	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	2013/06/20	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
51	Pentadecafluorooctanoic acid (PFOA)	335-67-1	2013/06/20	Toxic for reproduction (Article 57 c);
52	Dipentyl phthalate (DPP)	131-18-0	2013/06/20	Toxic for reproduction (Article 57 c);

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
53	Cadmium	7440-43-9	2013/06/20	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
54	Cadmium oxide	1306-19-0	2013/06/20	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
55	4,4'-methylenedi-o-toluidine	838-88-0	2012/12/19	Carcinogenic (Article 57a)
56	N-pentyl-isopentylphthalate	776297-69-9	2012/12/19	Toxic for reproduction (Article 57 c)
57	4-Aminoazobenzene	60-09-3	2012/12/19	Carcinogenic (Article 57a)
58	Orange lead (lead tetroxide)	1314-41-6	2012/12/19	Toxic for reproduction (Article 57 c)
59	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	2012/12/19	Toxic for reproduction (Article 57 c)
60	Dimethyl sulphate	77-78-1	2012/12/19	Carcinogenic (Article 57a)
61	Heptacosaflluorotetradecanoic acid	376-06-7	2012/12/19	vPvB (Article 57 e)
62	Lead titanium zirconium oxide	12626-81-2	2012/12/19	Toxic for reproduction (Article 57 c)
63	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	2012/12/19	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
64	6-methoxy-m-toluidine (p-cresidine)	120-71-8	2012/12/19	Carcinogenic (Article 57a)
65	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	2012/12/19	Toxic for reproduction (Article 57 c)
66	1,2-Diethoxyethane	629-14-1	2012/12/19	Toxic for reproduction (Article 57 c)
67	Sulfurous acid, lead salt, dibasic	62229-08-7	2012/12/19	Toxic for reproduction (Article 57 c)
68	1-bromopropane (n-propyl bromide)	106-94-5	2012/12/19	Toxic for reproduction (Article 57 c)
69	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	2012/12/19	PBT (Article 57 d); vPvB (Article 57 e)
70	Biphenyl-4-ylamine	92-67-1	2012/12/19	Carcinogenic (Article 57a)
71	Pentalead tetraoxide sulphate	12065-90-6	2012/12/19	Toxic for reproduction (Article 57 c)
72	Silicic acid, lead salt	11120-22-2	2012/12/19	Toxic for reproduction (Article 57 c)
73	o-Toluidine	95-53-4	2012/12/19	Carcinogenic (Article 57a)
74	Acetic acid, lead salt, basic	51404-69-4	2012/12/19	Toxic for reproduction (Article 57 c)
75	Dioxobis(stearato)trilead	12578-12-0	2012/12/19	Toxic for reproduction (Article 57 c)
76	Lead bis(tetrafluoroborate)	13814-96-5	2012/12/19	Toxic for reproduction (Article 57 c)
77	Lead dinitrate	10099-74-8	2012/12/19	Toxic for reproduction (Article 57 c)
78	Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	2012/12/19	Toxic for reproduction (Article 57 c)
79	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)
80	N-methylacetamide	79-16-3	2012/12/19	Toxic for reproduction (Article 57 c)
81	Pyrochlore, antimony lead yellow	8012-00-8	2012/12/19	Toxic for reproduction (Article 57 c)
82	Lead monoxide (lead oxide)	1317-36-8	2012/12/19	Toxic for reproduction (Article 57 c)
83	Tetralead trioxide sulphate	12202-17-4	2012/12/19	Toxic for reproduction (Article 57 c)
84	Trilead bis(carbonate)dihydroxide	1319-46-6	2012/12/19	Toxic for reproduction (Article 57 c)

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
85	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)
86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	2012/12/19	Toxic for reproduction (Article 57 c)
87	N,N-dimethylformamide	68-12-2	2012/12/19	Toxic for reproduction (Article 57 c)
88	Tetraethyllead	78-00-2	2012/12/19	Toxic for reproduction (Article 57 c)
89	Methyloxirane (Propylene oxide)	75-56-9	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)
90	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	2012/12/19	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
91	Fatty acids, C16-18, lead salts	91031-62-8	2012/12/19	Toxic for reproduction (Article 57 c)
92	Trilead dioxide phosphonate	12141-20-7	2012/12/19	Toxic for reproduction (Article 57 c)
93	o-aminoazotoluene	97-56-3	2012/12/19	Carcinogenic (Article 57a)
94	[Phthalato(2-)]dioxotrilead	69011-06-9	2012/12/19	Toxic for reproduction (Article 57 c)
95	Tricosafuorododecanoic acid	307-55-1	2012/12/19	vPvB (Article 57 e)
96	Lead oxide sulfate	12036-76-9	2012/12/19	Toxic for reproduction (Article 57 c)
97	Methoxyacetic acid	625-45-6	2012/12/19	Toxic for reproduction (Article 57 c)
98	Diisopentylphthalate	605-50-5	2012/12/19	Toxic for reproduction (Article 57 c)
99	Lead cyanamidate	20837-86-9	2012/12/19	Toxic for reproduction (Article 57 c)
100	4,4'-oxydianiline and its salts	101-80-4	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)
101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	2012/12/19	Carcinogenic (Article 57a)
102	Henicosafuoroundecanoic acid	2058-94-8	2012/12/19	vPvB (Article 57 e)
103	Furan	110-00-9	2012/12/19	Carcinogenic (Article 57a)
104	Pentacosafuorotridecanoic acid	72629-94-8	2012/12/19	vPvB (Article 57 e)
105	Diethyl sulphate	64-67-5	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)
106	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)
107	Dibutyltin dichloride (DBTC)	683-18-1	2012/12/19	Toxic for reproduction (Article 57 c)
108	Lead titanium trioxide	12060-00-3	2012/12/19	Toxic for reproduction (Article 57 c)
109	Formamide	75-12-7	2012/06/18	Toxic for reproduction (Article 57 c)
110	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	2012/06/18	Carcinogenic (Article 57a)
111	Diboron trioxide	1303-86-2	2012/06/18	Toxic for reproduction (Article 57 c)
112	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	2012/06/18	Carcinogenic (Article 57a)
113	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	2012/06/18	Toxic for reproduction (Article 57 c)
114	Lead(II) bis(methanesulfonate)	17570-76-2	2012/06/18	Toxic for reproduction (Article 57 c)
115	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	2012/06/18	Carcinogenic (Article 57a)
116	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	2012/06/18	Mutagenic (Article 57b)

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
117	4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	2012/06/18	Carcinogenic (Article 57a)
118	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	2012/06/18	Carcinogenic (Article 57a)
119	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	2012/06/18	Carcinogenic (Article 57a)
120	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	2012/06/18	Mutagenic (Article 57b)
121	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	2012/06/18	Toxic for reproduction (Article 57 c)
122	Lead styphnate	15245-44-0	2011/12/19	Toxic for reproduction (article 57 c)
123	Calcium arsenate	7778-44-1	2011/12/19	Carcinogenic (article 57 a)
124	Bis(2-methoxyethyl) ether	111-96-6	2011/12/19	Toxic for reproduction (article 57 c)
125	Phenolphthalein	77-09-8	2011/12/19	Carcinogenic (article 57 a)
126	Arsenic acid	7778-39-4	2011/12/19	Carcinogenic (article 57 a)
127	2-Methoxyaniline; o-Anisidine	90-04-0	2011/12/19	Carcinogenic (article 57 a)
128	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	2011/12/19	Carcinogenic (article 57 a)
129	Bis(2-methoxyethyl) phthalate	117-82-8	2011/12/19	Toxic for reproduction (article 57 c)
130	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	2011/12/19	Equivalent level of concern having probable serious effects to the environment (article 57 f)
131	Dichromium tris(chromate)	24613-89-6	2011/12/19	Carcinogenic (article 57 a)
132	Pentazinc chromate octahydroxide	49663-84-5	2011/12/19	Carcinogenic (article 57 a)
133	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-	2011/12/19	Carcinogenic (article 57 a)
134	Lead dipicrate	6477-64-1	2011/12/19	Toxic for reproduction (article 57 c)
135	N,N-dimethylacetamide	127-19-5	2011/12/19	Toxic for reproduction (article 57 c)
136	1,2-dichloroethane	107-06-2	2011/12/19	Carcinogenic (article 57 a)
137	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	2011/12/19	Carcinogenic (article 57 a)
138	Trilead diarsenate	3687-31-8	2011/12/19	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
139	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	2011/12/19	Carcinogenic (article 57 a)
140	Lead diazide, Lead azide	13424-46-9	2011/12/19	Toxic for reproduction (article 57 c),

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
141	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less than two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight		2011/12/19	Carcinogenic (article 57 a)
142	Cobalt dichloride	7646-79-9	2011/06/20 - 2008/10/28	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
143	1-Methyl-2-pyrrolidone	872-50-4	2011/06/20	Toxic for reproduction (article 57c)
144	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	2011/06/20	Toxic for reproduction (article 57c)
145	Hydrazine	302-01-2, 7803-57-8	2011/06/20	Carcinogenic (article 57a)
146	1,2,3-Trichloropropane	96-18-4	2011/06/20	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
147	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	2011/06/20	Toxic for reproduction (article 57c)
148	Strontium chromate	7789-06-2	2011/06/20	Carcinogenic (article 57a)
149	2-Ethoxyethyl acetate	111-15-9	2011/06/20	Toxic for reproduction (article 57c)
150	2-Ethoxyethanol	110-80-5	2010/12/15	Toxic for reproduction (article 57c)
151	Cobalt(II) diacetate	71-48-7	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
152	Cobalt(II) carbonate	513-79-1	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
153	Cobalt(II) sulphate	10124-43-3	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
154	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	7738-94-5, 13530-68-2	2010/12/15	Carcinogenic (article 57a)
155	Cobalt(II) dinitrate	10141-05-6	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
156	Chromium trioxide	1333-82-0	2010/12/15	Carcinogenic and mutagenic (articles 57 a and 57 b)
157	2-Methoxyethanol	109-86-4	2010/12/15	Toxic for reproduction (article 57c)
158	Trichloroethylene	79-01-6	2010/06/18	Carcinogenic (article 57 a)
159	Sodium chromate	7775-11-3	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
160	Boric acid	10043-35-3, 11113-50-1	2010/06/18	Toxic for reproduction (article 57 c)
161	Potassium chromate	7789-00-6	2010/06/18	Carcinogenic and mutagenic (articles 57 a and 57 b).
162	Tetraboron disodium heptaoxide, hydrate	12267-73-1	2010/06/18	Toxic for reproduction (article 57 c)
163	Potassium dichromate	7778-50-9	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
164	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	2010/06/18	Toxic for reproduction (article 57 c)
165	Ammonium dichromate	7789-09-5	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
166	Acrylamide	79-06-1	2010/03/30	Carcinogenic and mutagenic (articles 57 a and 57 b)
167	2,4-Dinitrotoluene	121-14-2	2010/01/13	Carcinogenic (article 57a)
168	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

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No.	Substance Name	Cas Number	Date of inclusion	Reason for inclusion
169	Anthracene oil, anthracene-low	90640-82-7	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)
170	Pitch, coal tar, high temp.	65996-93-2	2010/01/13	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
171	Anthracene oil, anthracene paste	90640-81-6	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)
172	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
173	Lead chromate	7758-97-6	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
174	Anthracene oil	90640-80-5	2010/01/13	Carcinogenic ¹ , PBT and vPvB (articles 57a, 57d and 57e)
175	Diisobutyl phthalate	84-69-5	2010/01/13	Toxic for reproduction (article 57c)
176	Tris(2-chloroethyl)phosphate	115-96-8	2010/01/13	Toxic for reproduction (article 57c)
177	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)
178	Anthracene oil, anthracene paste, distn. lights	91995-17-4	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)
179	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	2008/10/28	Carcinogenic (article 57a)
180	Triethyl arsenate	15606-95-8	2008/10/28	Carcinogenic (article 57a)
181	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	2008/10/28	vPvB (article 57e)
182	Benzyl butyl phthalate (BBP)	85-68-7	2008/10/28	Toxic for reproduction (article 57c)
183	Sodium dichromate	7789-12-0, 10588-01-9	2008/10/28	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
184	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	2008/10/28	PBT and vPvB (articles 57 d and 57 e)
185	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	2008/10/28	PBT (article 57d)
186	Anthracene	120-12-7	2008/10/28	PBT (article 57d)
187	Dibutyl phthalate (DBP)	84-74-2	2008/10/28	Toxic for reproduction (article 57c)
188	Lead hydrogen arsenate	7784-40-9	2008/10/28	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
189	Diarsenic trioxide	1327-53-3	2008/10/28	Carcinogenic (article 57a)
190	Diarsenic pentaoxide	1303-28-2	2008/10/28	Carcinogenic (article 57a)
191	Bis(tributyltin)oxide (TBTO)	56-35-9	2008/10/28	PBT (article 57d)

REACH ANNEX XIV

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION LAST UPDATE 18-12-2017

NUMBER OF SUBSTANCES ON THE AUTHORISATION LIST : 43

The identification of a substance as Substance of Very High Concern and its inclusion in the Candidate List is the first step of the authorisation procedure.

Companies may have immediate legal obligations following such inclusion which are linked to the listed substance on its own, in preparations and articles.

Further documentation or more detailed information on the identification process of substances of very high concern can be found on the web pages of ECHA's Member State Committee.

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No.	Substance Name	Cas Number	Latest application date	Sunset date
1	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	21/02/2013	21/08/2014
2	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	21/02/2013	21/08/2014
3	Hexabromocyclododecane (HBCDD), alpha-hexabromocyclododecane, beta-hexabromocyclododecane, gamma-hexabromocyclododecane	3194-55-6 99-4 134237-50-6 134237-51-7 134237-52-8	25637- 21/02/2014	21/08/2015
4	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	21/08/2013	21/02/2015
5	Benzyl butyl phthalate (BBP)	85-68-7	21/08/2013	21/02/2015
6	Dibutyl phthalate (DBP)	84-74-2	21/08/2013	21/02/2015
7	Diisobutyl phthalate (DIBP)	84-69-5	21/08/2013	21/02/2015
8	Diarsenic trioxide	1327-53-3	21/11/2013	21/05/2015
9	Diarsenic pentaoxide	1303-28-2	21/11/2013	21/05/2015
10	Lead chromate	7758-97-6	21/11/2013	21/05/2015
11	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	21/11/2013	21/05/2015
12	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	21/11/2013	21/05/2015
13	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	21/02/2014	21/08/2015
14	2,4 – Dinitrotoluene (2,4-DNT)	121-14-2	21/02/2014	21/08/2015
15	Trichloroethylene	79-01-6	21/10/2014	21/04/2016
16	Chromium trioxide	1333-82-0	21/03/2016	21/09/2017
17	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	21/03/2016	21/09/2017
18	Sodium dichromate	7789-12-0 10588-01-9	21/03/2016	21/09/2017

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No.	Substance Name	Cas Number	Latest application date	Sunset date
19	Potassium dichromate	7778-50-9	21/03/2016	21/09/2017
20	Ammonium dichromate	7789-09-5	21/03/2016	21/09/2017
21	Potassium chromate	7789-00-6	21/03/2016	21/09/2017
22	Sodium chromate	7775-11-3	21/03/2016	21/09/2017
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	22/02/2016	22/08/2017
24	Arsenic acid	7778-39-4	22/02/2016	22/08/2017
25	Bis(2-methoxyethyl) ether	111-96-6	22/02/2016	22/08/2017
26	1,2-dichloroethane (EDC)	107-06-2	22/05/2016	22/11/2017
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	22/05/2016	22/11/2017
28	Dichromium tris(chromate)	24613-89-6	22/07/2017	22/01/2019
29	Strontium chromate	7789-06-2	22/07/2017	22/01/2019
30	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	22/07/2017	22/01/2019
31	Penntazinc chromate octahydroxide	49663-84-5	22/07/2017	22/01/2019
32	1-bromopropane (n-propyl bromide)	106-94-5	04/01/2019	04/07/2020
33	Diisopentyl phthalate	605-50-5	04/01/2019	04/07/2020
34	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	04/01/2019	04/07/2020
35	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	04/01/2019	04/07/2020
36	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	04/01/2019	04/07/2020
37	Bis(2-methoxyethyl) phthalate	117-82-8	04/01/2019	04/07/2020
38	Dipentyl phthalate	131-18-0	04/01/2019	04/07/2020
39	N-pentyl-isopentylphthalate	776297-69-9	04/01/2019	04/07/2020
40	Anthracene oil	90640-80-5	04/04/2019	04/10/2020
41	Pitch, coal tar, high-temp.	65996-93-2	04/04/2019	04/10/2020
42	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated		04/07/2019	04/01/2021
43	4-Nonylphenol, branched and linear, ethoxylated		04/07/2019	04/01/2021