

Work Instructions Technical Delivery Conditions			Number: AA-TL035	Rev.: 02
Title: Prohibition and Declaration List			Scope: Rittal International	
Author: Kreuzinger/ Utsch	Department: QM-S/ SEUB	Approved: D. Steffen	Release date: 10.08.2004	Page: 1 of 11



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0. Change history

Rev.	Author	Released on / by	Change	Reason for the change
01	Dr. Schlewing	27.08.2009/ Dr. Lang	Requirements of REACH (SVHC list) accounted for.	New legal situation.
02	Dr. Schlewing	28.01.2010/ Dr. Lang	Extension of REACH (SVHC list)	New legal situation by ECHA on 13/01/2010.

1. Purpose

The manufacturing industry uses a large number of materials, process materials and base materials. These affect the environment, the safety and quality of the products both during their use and their disposal. In addition, many national, European and international legal norms prohibit or regulate the use of materials. Thus, it is important to have information about the use of materials in products available for delivery. These technical delivery conditions are intended to help to clarify the material content of components, materials and products. They can also be used as:

- Functional specification for the design and development
- Part of the general business conditions
- Information for customers
- Substitute for the answering of queries for this subject area

2. Fundamentals

This prohibition and declaration list specifies materials and material groups with the potential risks for persons and the environment. Due to changes in the law, an update became necessary to take into account the new legal guidelines (for example, because of the REACH Regulation). In addition, different lists of prohibited materials from other manufacturers have been taken over and integrated in order to achieve the greatest possible coverage of all dangerous materials.

- The list of materials used in the automotive industry that require a declaration of compliance (VDA Z32-101, edition 07.2002)
- EU recycled automotive guidelines (2000/53/ELV)
- EU guidelines "Restriction on the use of certain dangerous materials in electrical and electronic devices" (2002/95/EC, ROHS)
- Materials prohibited from use by customers (These materials are written italicised in the text.)

This covers all materials, which, in particular

- Cause cancer
- Endanger reproduction
- Change genetic material
- Act sensitising
- Are (very) poisonous
- Endanger the environment

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3. Application and explanations

This prohibition and declaration list is binding for all suppliers as a technical delivery condition. The supplier has to ascertain, for all deliveries, whether the substance prohibition has been adhered to, and if threshold quantities (unless otherwise stated, 0.1% of the regulated substance) have been exceeded.

Substances, whose declaration is compulsory, as far as they are known, are marked with a "D". Substances that are subject to legal bans are marked with a "P". Because the substitution of substances has an impact on quality and usability, their replacement by other substances must be approved.

NOTE

Regardless of whether or not there is a legal requirement to make a declaration of compliance, the supplier must always inform Rittal whether substances included on the accompanying list are present in any articles, products, or compounds delivered to us.

If the use of certain substances cannot be avoided due to special quality and use requirements (e.g. within the framework of approvals) and Rittal has agreed with this, then a corresponding notification must also be provided by the supplier specifying which materials this affects. The notification must include the following information: name of the substance, CAS or EC number, content in mass percentage in relation to the overall weight.

As a downstream user, we only use registered or preregistered substances in accordance with the respective statutory time limits. Further obligations arise if the supplier is a direct importer from a non-EU state.

The current version the REACH candidate list (SVHC list) must be observed, regardless of whether the substances delivered are listed in these technical terms of delivery.

The candidate list is hosted at: http://echa.europa.eu/chem_data/candidate_list_table_en.asp and is constantly updated.

4. Scope

4.1 Legal information

These work instructions are valid even if the above legal norms do not apply in the country of production / manufacture / distribution.

This also applies to the use of factory supplies and operating supplies that adhere to or are attached to part of the goods being delivered (e.g. cooling lubricant). However, this regulation neither exempts the supplier from the obligation to check substance bans or restrictions on the use of hazardous substances to other statutory provisions, nor to provide information about this. On the specific obligations on information and registration within the supply chain in accordance with REACH (*EC 1907/2006*), attention in this context should be paid to Title IV, Articles 31-36, *Information along the supply chain* and Title V, Articles 37 and 39, *Downstream users*.

4.2 Period of validity

These work instructions are valid until they are replaced by a new, more up-to-date version.

5. Version

This prohibition and declaration list is based on the legal standards valid in January 2010, when it was created. These standards may be superseded by a newer version, in which case this document must be replaced accordingly.

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6. Associated Abbreviations and Definitions

6.1 General definitions

Products	Material or compound that has achieved a special form or surface during the manufacturing process that determines its function more than its chemical composition, as such or in added form.
Materials	Chemical elements or chemical compounds as they naturally occur or in manufactured form, including additives required to maintain stability and contamination resulting from the manufacturing process, with the exception of solvents that can be removed from the material without affecting its stability or changing its composition.
Compound	Blend, mixture or solution consisting of two or more materials.

6.2 Details about the columns in the list

Column 1	Serial number
Column 2	Substance name or class, general classification where possible
Column 3	Chemical Abstracts Number (CAS No.) or EC number for unique identification
Column 4	Dangerous material symbol, as far as known
Column 5	Usage
Column 6	Source
Column 7	Classification
Column 8	Relevance (legal standard or prohibited materials lists)
Column 9	Legal declaration of compliance requirement: "D"/legal prohibition: "P"

6.3 Associated abbreviations

ChemG	Chemicals Law – law for protection against dangerous materials.
ChemVerbotsV	Chemicals Prohibition Decree – order concerning prohibitions and restrictions governing the marketing of dangerous materials, compounds and products in accordance with the Chemicals Law.
EU-RL	European guidelines, including change and modification guidelines: <i>EU-RL 67/548/EWG</i> : Guidelines for agreeing the legal and administration regulations of the member states for the classification, packaging and marking of compounds of dangerous materials.
EU-VO	EU decree, including change and modification decrees: <i>EU-VO 594/91/EWG</i> : Decree of the committee for materials that cause depletion of the ozone layer.
GefmaterialV	Dangerous materials decree
StrlSchV	Radiation protection decree
C _x	Causes cancer, classification in accordance with <i>EU-RL 67/548/EEC</i> or TRGS 905.
M _x	Changes genetic material, classification
R _{EX}	Impairs reproduction (development) <i>EU-RL 67/548/EEC</i> or TRGS 905
R _{FX}	Impairs reproduction
T	Poisonous (in accordance with ChemG and <i>EU-RL 67/548/EEC</i>)
T+	Very poisonous (in accordance with ChemG and <i>EU-RL 67/548/EEC</i>)
TRGS	Technical rules for dangerous materials.
Xn	Damages health (in accordance with ChemG and <i>EU-RL 67/548/EEC</i>)
REACH	Registration, Evaluation and Authorisation of Chemicals
GADSL	Global Automotive Declaration Substance List
ROHS	Restriction of hazardous substances
JIG	Joint Industry Guide (mostly relevant for Japan)
GP	Green Passport: Prohibition list for Norway

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7. Notes and Exceptions

7.1 V2A stainless steel enclosures

Rittal stainless steel enclosures are supplied with different material specifications and may contain chromium and nickel as requested. However, these materials are not present in free form.

The customer must observe the tolerance values during the mechanical processing, drilling, grinding, etc.

7.2 KS plastic enclosures

Rittal plastic enclosures are manufactured from glass-reinforced unsaturated polyester. The glass fibres are enclosed in plastic and do not provide any danger, but can be released during the mechanical processing, drilling, grinding, etc.

The customer must observe the tolerance values for the fibre dust.

7.3 Rittal climate control enclosures (Pro Ozone logo)

The Pro Ozone logo as symbol for the Rittal initiative for preserving the protective ozone layer is a worldwide-recognised standard for environment-oriented cooling technology. All Rittal cooling devices use the R134a "CFC-free" refrigerant.

Namely, no fluoride or chloride-based hydrocarbons are used.

7.4 Lead, material restrictions in accordance with RoHS

7.4.1 Alloy tolerance value

0.1%, unless added intentionally

7.4.2 Constituent limit values

0.1%, unless added intentionally

7.4.2.1 Exceptions

1. Batteries (marking required)
2. Electrical components that contain lead encapsulated in a glass or ceramic matrix, with the exception of glass in incandescent lamps.
1. Lead in the glass for cathode ray tubes, electronic components and fluorescent tubes
2. For servers, storage systems and storage-array systems (no restriction until 2010)
3. For network infrastructure equipment for switching, signal processing, transmission and network management in the field of telecommunications
4. Lead in ceramic electronic components (e.g. piezo-electronic components)

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7.5. Cadmium, material restrictions in accordance with RoHS

7.5.1 Limit value

75 ppm, unless added intentionally

7.6. Chromate (VI), material restrictions in accordance with RoHS

7.6.1 Limit value

0.1%, unless added intentionally

7.7 Mercury, material restrictions in accordance with RoHS

7.7.1 Limit value

0.1%, unless added intentionally

7.7.2 Exceptions

Discharge lamps and instrument panel displays (marking required)

1. Mercury in compact fluorescent lamps in a maximum quantity of 5 mg per lamp
2. Mercury in rod-shaped fluorescent lamps for general uses while observing the following maximum quantities:

Halophosphate	10 mg
Triphosphate with normal lifetime	5 mg
Triphosphate with long lifetime	8 mg
3. Mercury in rod-shaped fluorescent lamps for special purposes
4. Mercury in other lamps not listed expressly in this appendix

7.8. Because azoic dyes are not used on Rittal products, they are not listed or described.

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8. List

No.	Substance	CAS/EC No.	Usage	Source	Class.	Relevance	
1	Acetaldehyde	75-07-0	C3 Cleavage product	Plastic products	X		D
2	Acetamide	60-35-5	C3 Solvent additive	Plasticizer	X		D
3	Acryl amide	79-06-01	C2 Production of polyacrylamide	Plastics	X		D
4	Acrylonitrile	107-13-1	C2 Production of polyacrylonitrile	Elastomers	X		D
5	Aliphatic chlorinated hydrocarbons			See chlorinated hydrocarbons			
6	4-Aminobiphenyl and its salts	92-67-1	C1 Impurities in antioxidants	Lubricants, elastomers, resins	XX		
7	4,4'-Diaminodiphenylmethane (MDA)	202-974-4	T Hardener for plastics	Polymers	XX	REACH	D
8	Alkanes, C10 – C13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8				REACH	D
9	Ammonia depleting substances	7664-41-7		Cleavage product	X		
10	Aniline and its salts	62-53-3	C1 Production of dyes	Sulfonamides, isocyanate plastic	X		
11	Anthracene	120-12-7		Production of dyes		REACH	D
12	Antifouling coatings, constituents			See protection coatings		GP	D
				Ester resins, modifi. hard resins, arsenic, hexachlorocyclohexane, mercury, chlorinated Polypropylene and vinyl resins, organic tin compounds			
13	Antimony and its compounds	7440-36-0		Alloys		GP	D
14	Antimony trioxide, diantimony trioxide	1309-64-4	C3 Flame retardant	Plastics	X	GP	D
15	Aromatic amines		C1 Contamination in colourants	4-Aminobiphenyl and its salts (92-67-1) benzidine and its salts (92-87-5) 2-naphthylamine and its salts (91-59-8) 4-naphthylamine (92-93-3)	XX		
16	Arsenic and its compounds	7440-38-2	C1 Dyes and enamel glazes	Metal adhesive	XX	GP	D
17	Diarsenic trioxide	1327-53-3	C1 Production of glass	Tanning process, leather, fungicide	XX	REACH	D
18	Diarsenic pentoxide	1303-28-2	C1	Fungicide	XX	REACH	D
19	Asbestos	1332-21-4	C1 Friction linings	Seals, insulating materials	X	GP	D
20	Azo colourants (as defined in TRGS 614)		C1 C2 in dyes	Carcinogenic amine components	XX	TRGS 614 GP	P
21	Barium compounds, organic or water soluble	744-39-3	Xn Stabilizers in PVC	Exception: Ba-carboxylate	X		
22	Benzidine and its salts	92-87-5	C1 Azo colourants	Antioxidants	X		
23	Benzo(a)pyrene or other substances of the same type	50-32-8	C2, M2 Lubricants	Plasticizer PAHs RF2, RE2	X		
24	Benzyl butyl phthalate	85-68-7	C2 Plasticizer	Elastomers, plastics		REACH	D
25	Beryllium and its compounds			In alloys		GP	D
26	Up to (2-ethyl(hexyl)phthalate) DEHP	117-81-7	C2 Plasticizer	Elastomers, plastics		REACH	D
27	Lead hydrogen arsenate	7784-40-9	T	Fungicide		REACH	D
28	Cadmium and its compounds	7440-43-9	C2 Surface protection, stabilizers, lake pigments	Surface protection	XX	RoHS, GP	P
29	Cobalt dichloride	7646-79-9	T, N Moisture indicator	In drying agents		REACH	D
30	Chloroaniline	106-47-8	C2 Hardener and cross-linking agent in polymers and epoxy-based resins	Plastics	X		D
31	Chlorepoxypropane (epichlorohydrin); See: 1-chlorine-2, 3-epoxy-propane	106-89-8	C2 Residual monomers in epoxy-based resins	Residue in epoxy-based resin	x		

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No.	Substance	CAS/EC No.	Usage	Source	Class.	Relevance	
32	Chlorinated biphenyls, see: polychlorinated biphenyls (PCB)		Insulating fluids	Capacitors, transformers		GP	D
33	Chlorinated hydrocarbons (CH), also see: chloroparaffins unbranched		Flame retardant	Plastics			
34	Tetrachloromethane (tetrachloromethane)	56-23-5	C3 Solvent	Solvent, cleaning	XX		
35	1,1,2,2 Tetrachloroethane	79-34-5	T+ Solvent	Solvent, coolant		GP	D
36	1,1,2,2 Tetrachloroethane	630-20-6	Impregnating agent	Wood stains, spraying paint		GP	D
37	Pentachloroethane	76-01-7	C3 Solvent	Solvent and solvent mixtures			P
38	Trichloromethane (chloroform)	67-66-3	C3 Solvent	Solvent			
39	1,1,2 Trichloroethane	79-00-5	Solvent	Solvent for chlorinated rubber		GP	D
40	1,1 Dichloroethylene	75-35-4	C3 Source material, polyvinylidene chloride				
41	1,1,2 Trichloroethane	71-55-6	C3 Solvent	Solvent in dyes, adhesives			
42	Chloroparaffins, unbranched		Flame retardant	Plastics	X	EU-RL2002/45	P
43	Chromium (VI) salts	14977-61-8	C2 Chromium pigments, chromated surfaces	Pigments, coatings	X	RoHS	P
44	Chromium (III) compounds		C2 Corrosion inhibitors		X	GP	D
45	Cobalt and its compounds	7440-48-4	Hard metals	Galvanic coatings, alloys Alloy constituent	X	REACH	D
46	Diethyl phthalate (DEP)	84-66-2	C2 Plasticizer	Seals, sealing foams, plastics	X		D
47	Diisononyl phthalate (DINP)	28553-12-0	C2 Plasticizer	Seals, sealing foams, plastics	X		D
48	Dimethyl phthalate (DMP)	131-11-3	C2 Plasticizer	Seals, sealing foams, plastics	X		D
49	Dibutyl phthalate (DBP)	84-74-2	C2 Plasticizer	Seals, sealing foams, plastics	X	REACH	D
50	Dioxins and furanes		See: chlorinated or brominated dioxins, furanes				
51	Di-μ-oxo-di-n-butylstanninihydroxyboran DBB		See: organic tin compounds				
52	Diocetyl phthalate (DNOP)	117-84-0	Plasticizer	Seals, foams, plastics			
53	Epichlorohydrine		see 1-chlorine-2, 3-epoxy-propane	Residual in epoxy-based resins			
54	Ethyl/Methyl glycols and their acetates		Solvents, PES and PU lacquers, resins				
55	Ethylene glycol-ether acetate	111-15-9	RF2, RE2 Plasticizer	Plastics	X		
56	Ethylene glycol-methyl ether	109-86-4	RF2, RE2 Plasticizer	Plastics	X		
57	Chlorofluorocarbons (CFCs) or other ozone depleting substances		N Foaming agents (PU)	Polyurethane foams (PU)	X		
58	Formaldehyde	50-00-0	C3 In plastics, adhesives and foamed polymers	Residual in plastics	XX		
59	Halogenated aliphatic hydrocarbons		See: chlorinated hydrocarbons (CH)				
60	Halons (CFCs, HBFCs, HCFCs)		Coolants	Air conditioning systems		GP CFC halon	
61	Bromochlorodifluoromethane (halon 1211)	353-59-3	N Extinguishing agent	Fire extinguishing systems	X	GP CFC halon	

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62	Bromotrifluoromethane (halon 1301)	74-83-9	N	Extinguishing agent	Extinguishing systems, e.g. in aircrafts	X	GP CFC halon	
63	Dibromotetrafluoroethane (halon 2402)	124-73-2		Extinguishing agent	Extinguishing systems	X	CFC halon	
64	Hexabromocyclododecane HBCDD, all isomers	25637-99-4, 3194-55-6, 134237-51-7, 134237-50-6, 134237-52-8		Flame retardant in plastics, elastomers	Polymers, plastic		REACH	D
65	Hexachlorocyclohexane	58-89-9	N	Antifouling colours	Coatings, colours	X		
66	Hydrazine	302-01-2	C2	Residual monomers in plastics, colourants and adhesives	In colours	X		
67	Methylacrylamidomethoxy-acetate	77402-03-0	C2, M2	Production of polymers	Residues in plastics	X		
68	Mineral fibres, natural, synthetic		Cx	Insulation, cables	(E.g. optical fibres, ceramic fibres)	X		
69	Monoalkyltin and dialkyltin compound			Catalyst in PUR foams and stabilizer in PVC		X	GP	D
70	Monomethyl dibromodiphenyl methane	99688-47-8		Production residues of polymers	Residues	X		
71	Monomethyldichlorodiphenyl methane	81161-70-8		Production residues of polymers	Residues	X		
72	Monomethyltetrachlorodiphenyl methane	76253-60-6		Production residues of polymers	Residues	X		
73	Sodium azide	26628-22-8		Additive	Algae growth inhibitor in cooling liquids	X		
74	Sodiumdichromate	7789-12-0		Galvanic			REACH, GP, RoHS	P
75	2-Naphthylamine and its salts	91-59-8		Antioxidants in polymers		XX		
76	Nickel or nickel compounds	7440-02-0	C3	Metals, metal alloys	Danger from dusts, aerosols, weld smoke, Ni alloys	X	RoHS	D
77	Nitrites, carcinogenic and nitrosamine generating			see nitrosamines	Inhibitors	XX		
78	Nitrocellulose			Gas generators		X		
79	4-Nitro-biphenyl	92-93-3	C2			XX		
80	Nitrosamines, with exceptions depending on cooling lubricant					X	TRGS 552	D
81	Pentachlorophenol, (PCP) or its compounds	87-86-5	C3	Fungicide	Wood preservative	X		
82	Phenol	108-95-2	T	Residual monomers in Synthetic resins	Residues in plastics	X		
83	Tetrabromobisphenol A (TBBA)	79-94-7		Flame retardant	Polymers, plastic	X		
84	Phenylenediamine	25265-76-3		Dyes	Plastics	X		
85	Phthalates, see e.g. DEHP or DOP			Plasticizer	Plastics		REACH	D
86	Polybrominated biphenyls (PBB)	59536-65-1		Flame retardant in plastics	Plastic parts, also for electronic devices	XX	GP, RoHS	
87	Polybrominated diphenylethers (PBDE) (e.g.: DecaBDE)			Flame retardant in plastics	Plastic parts, also for electronic devices	X	GP, RoHS	
88	Polybrominated terphenyls (PBT)			Flame retardant in plastics	Plastic parts, also for electronic devices	X	GP	
89	Polychlorinated biphenyls (PCB)	61788-33-8		Insulating fluids	Transformers	X	GP, RoHS	
90	Polybrominated terphenyls (PCT)	61788-33-8		Insulating fluids	Transformers	X		
91	Polycyclic aromatic hydrocarbons (PAH), see: Benzo(a)pyrene						GADSL	D
92	Mercury and its compounds	7439-97-6	T	Gas-discharge lamps, switches	Fluorescent lamps, energy-saving lamps	XX	RoHS	P

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93	Radioactive substances		Ionisation source	Smoke detectors	XX	GP	D
94	Hydrogen sulphide depleting substances	7783-06-4	T+ Cleavage products		X		
95	Heavy metals and their compounds e.g. as colours and lacquers		Pigments in colours and lacquers, e.g.: Chromium (Cr), nickel (Ni), lead (Pb), mercury (Hg), cobalt (Co), zinc (Zn), tin (Sn)	Paints, lacquers, coatings	X	RoHS	
96	Lead	7439-92-1	Metal alloys	Solder		RoHS	P
97	Selenium and its compounds	7782-49-2	Alloying additives, free-cutting steels, Cu	Rectifiers, vulcanization accelerator, Cu alloys		GP	D
98	Styrene (vinyl benzene)	100-42-5	Xn Residual monomers in plastics	Residues	X		
99	Styreneoxide (epoxy-styrene)	96-09-3	C2 Residual monomers, e.g. in SMC	Residues	X		D
100	Thallium and its compounds	7440-28-0	T+ Sensors, electronic devices	Sensors	X	GP	D
101	Tetrachloromethane	56-23-5	C3 See: chlorinated hydrocarbons	Degreasing or cleaning agents	X		
102	trialkyltin and triaryl tin compounds		Biocides			REACH	D
103	Toluidine (o-toluidine)	95-53-4	C2 Production of dyes	Dyes	X		
104	Trichlorophenol and its salts, (2,4,6-trichlorophenol)	88-06-2	C3 Fungicide, bactericide	Fungicide, bactericide	X		
105	Trichloropropane, (1,2,3-trichloropropane)	96-18-4	Xn Solvent, cross-linking agent	Tri-functional cross-linking agent for polysulphide elastomers	X		
106	Triethyl arsenate	15606-95-8	Glass production, wood preservative	Anti-decay agent		REACH	D
107	Trimethylphosphate and its related compounds	512-56-1	Flame retardant	Plastics	X		D
108	Trimethylphosphate or its related compounds	115-86-6	Flame retardant	Plastics	X		D
109	Vinyl chloride	75-01-4	C1 Residual monomers in polymers	Residues	X		
110	Zinc and its compounds	7440-66-6	Rust prevention, in metal alloys	Rust protection colours, metal alloys, Zn pressure casting		GP	D
111	Organic tin compounds general		see trialkyltin and triaryl tin compounds, as well as monoalkyltin and dialkyltin compounds			REACH	D
112	Bis(tributyltin)oxide (TBTO)	56-35-9	C1 Fungicide	Textiles, coatings		REACH	D
113	5 Tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	Fragrances	Cleaning products		REACH	D
114	2,4,6 Tri-tert-butylphenol	732-26-3			X		D
115	Ethanol,2,2,2 nitoltris	102-71-6			X		D
116	Methanol	67-56-1	T Solvent	Solvent	X	GP	D
117	N-ditolyt-p-phenylenediamine	27417-40-9			X		
118	N,N-dixylol-p-phenylenediamine	28726-30-9			X		D
119	N-toly-n-xylol-p-phenylenediamine	70290-05-0			X	JIG	P
120	Polychlorinated naphthalene	38289-27-9			X	RoHS	P
121	Octabromdiphenyl ether (OBDE)	32536-52-0	Flame retardant	Plastics		GP, RoHS	P
122	Pentabromodiphenyl ether	32534-81-9	Flame retardant	Plastics		GP, RoHS	P
123	Polychlorinated dioxins and furanes						
124	Polybrominated dioxins and furanes						
125	Thioperoxide carbonic diamide	137-26-8	Xn Fungicide	Fungicide	X		D
126	Anthracene oil	90640-80-5	Xn Carbon black	Impregnating, sealing, corrosion protection	X	REACH	D
127	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	Xn Carbon black	Impregnating, sealing, corrosion protection		REACH	D

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128	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	Xn Carbon black	Impregnating, sealing, corrosion protection		REACH D
129	Anthracene oil, anthracene low	90640-82-7	Xn Carbon black	Impregnating, sealing, corrosion protection		REACH D
130	Anthracene oil, Anthracene paste	90640-81-6	Xn Carbon black	Impregnating, sealing, corrosion protection		REACH D
131	Pitch, coaltar, high temp.	65996-93-2	Xn Electrodes	Corrosion protection		REACH D
132	Acrylamide	79-06-1	Polyacrylamide	Synthesis of polymers, gels, etc.		REACH D
133	Alumosilicate Refractory Ceramic Fibers Covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 and fulfil the two following conditions: a) Al ₂ O ₃ are present within the following concentration ranges: Al ₂ O ₃ : 43.5 – 47 % w/w and SiO ₂ : 49.5 - 53.5 % w/w or Al ₂ O ₃ : 45.5 – 50.0 % w/w and SiO ₂ : 48.5 – 54 % w/w b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm)		Insulation Fire protection	Refractory ceramic fibres are used for high-temperature Insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for automotive and aircraft/ aerospace industry) and in fire protection (buildings and industrial process equipment).		REACH D
134	Zirconia Aluminosilicate, Refractory Ceramic fibres Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2. of Regulation (EC) No 1272/2008, and fulfil the two following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 35 - 36 % w/w and SiO ₂ : 47.5 – 50 % w/w and ZrO ₂ : 15 - 17% w/w b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm).		Insulation Fire protection	Refractory ceramic fibres are used for high-temperature Insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for automotive and aircraft/ aerospace industry) and in fire protection (buildings and industrial process equipment).		REACH D
135	2,4-Dinitrotoluene	121-14-2	Plasticiser in PUR foams	plasticizer in PUR-foams Gelatinizing-plasticizing agent,		REACH D
136	Diisobutylphthalate	84-69-5	Plasticisers in PUR foams	Plasticizer in plastics, laquers, adhesives		REACH D
137	Lead chromate	7758-97-6	Pigments, dyes	In maritime paints		REACH D
138	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	Pigments, dyes	In rubbers, plastic, paints		REACH D
139	Lead sulfochromate yellow (C.I. Pigment yellow 34)	1344-37-2	Pigments, dyes	In rubbers, plastic, paints		REACH D
140	Tris(2-chloroethyl)phosphate	115-96-8	Add. Plasticisers, Flame retarding	Plasticizer with flame retarding properties in acrylic resins, PUR, coatings.		REACH D