

Work Instructions Technical Delivery Conditions			Number: AA-TL035	Rev04 15/07/2011
Title: Prohibition and Declaration List			Scope: Rittal International	
Author: Kreuzinger/ Utsch	Department: QM-S/ SEUB	Approved: Dr. Steffen	Release date: 10/08/2004	Page: 1 of 16



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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 ECHA (SVHC list)	New legal situation by ECHA
02	Dr. Schlewing	28.01.2010 Dr. Lang	Extension of REACH ECHA (SVHC list)	New legal situation by ECHA on 13/01/2010
03	E. Steller J. Schnaubelt	19.04.2011 Dr. Lang	Extension of REACH ECHA (SVHC list) Inclusion in AA-TL035 Inclusion in AA-TL035 Inclusion in AA-TL035 Inclusion in AA-TL035	New legal situation by ECHA on 15/12/2010 ChemVerbotsVO Ozone Reg. (EC) PCB/PCT substances banned POP substances banned PFOS substances banned
04	E. Steller J. Schnaubelt	15.07.2011 Dr. Lang	Extension of REACH ECHA (SVHC list)	New legal situation by ECHA on 20/06/2011

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, inter alia:

- REACH: EU directive 1907/2006/EC
- RoHS: EU directive 2002/95/EC
"Restriction on the use of certain dangerous materials in electrical and electronic devices"
- ChemVerbotsVO (German Chemical Prohibition Regulation)
- ChemOzonSchichtVO (German Chemical And Ozone Layer Regulation)
- Convention on POPs (= Stockholm Convention)

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- 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)
- CoC (Code of Conduct = Company guide for social responsibility)

This covers all materials, which, in particular

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

3. Application and explanations / Declaration required “D” / Prohibition “P”

This prohibition and declaration list is binding for all suppliers as a technical delivery condition. For all deliveries, the supplier has to check whether the substance prohibition or, where applicable, the permissible concentrations have been adhered to.

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, if 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 (w/w).

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/authorisation_process/candidate_list_table_en.asp and is constantly updated.

Duty to communicate information within the supply chain “Declaration required”

Article 33 of the REACH regulation stipulates there is a duty to communicate information to the user in the supply chain when a product contains a substance listed in annex XIV (candidate list / SVHC list) of the REACH regulation with a weight proportion of 0.1 % (w/w) or above.

All downstream users within the supply chain must be immediately informed about SVHC.

Excerpt from article 33 of REACH regulation “Declaration required”

“Duty to communicate information on substances in articles”

Any supplier of an article containing a substance meeting the criteria in Article 57 an identified in accordance with Article 59 (1) in a concentration above 0,1 % weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

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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 03.2011, when it was created. These standards may be superseded by a newer version, in which case this document must be replaced accordingly.

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 Substance name or Substance Group
Column 2 Chemical Abstracts Number (CAS No.) or EC number for unique identification
Column 3 Hazard, Damage to Health
Column 4 Usage / Source
Column 5 Relevance (legal standard or prohibited materials lists)
Column 6 Legal declaration required: "D"/ legal prohibition: "P" / Prohibition with exceptions "PA"

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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.
ChemOzonSchichtVO	German Chemical And Ozone Layer Regulation
C	Caustic
C _x	Causes cancer, classification in accordance with <i>EU-RL 67/548/EEC</i> or TRGS 905.
D	Declaration required
E	Explosive
ECHA	European Chemicals Agency
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.
EG-GHS-VER	Regulation (EG) Nr. 1272/2008 of the classification, marking and packing of materials and mixtures
F	Highly flammable
F+	Extremely flammable
GADSL	Global Automotive Declaration Substance List
GefmaterialV	Dangerous materials decree
GP	Green Passport – „Ship Recycling“ IMO convention – Prohibition list / Initial Norway
JIG	Joint Industry Guide (mostly relevant for Japan)
M _x	Changes genetic material, classification
N	Dangerous to the environment
O	Oxidizing
Ozone Reg. (EC)	Ozone Regulation (EC) No. 1005/2009
P	Prohibition
PA	Prohibition with exceptions
PCT / PCB	Polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT - Council Directive 96/59/EC of 16 September 1996)
PFOS	Perfluorooctanesulfonic acid or perfluorooctane sulfonate, directive 2006/122/EG, since 2009 Stockholm Convention, too.
POP	Stockholm Convention on P ersistent O rganic P ollutants is an international environmental treaty that aims to eliminate or restrict the production and use of persistent organic pollutants (POPs).
REACH	Registration, Evaluation and Authorisation of Chemicals
ROHS	Restriction of hazardous substances (Lead, Mercury, Chrome VI, Cadmium, PBB, PBDE)
StrlSchV	Radiation protection decree
SVHC	Substances of Very High Concern. List of candidates by ECHA. Restriction under REACH
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.
w/w	concentration “weight by weight“
Xn	Damages health (in accordance with ChemG and <i>EU-RL 67/548/EEC</i>)
Xi	Irritant

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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 - Ozone Regulation (EC) No 1005/2009)

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 "CFC-free" HFC refrigerants. They do not contain any chlorine, and have an ozone depletion potential (ODP) of zero. In particular, Rittal uses the following refrigerants: R134a, R407c, R410a. These refrigerants are not controlled substances as covered by the Ozone Regulation (EC) No 1005/2009 and do not belong to the halon group of chemicals. Namely, no fluoride or chloride-based hydrocarbons are used.

7.4 Material restrictions in accordance with RoHS 2002/95/EG, 2008/35/EG, 2008/385/EG, 2009/443/EG, 2005/618/EG: Limit values mass% per homogeneous material

7.4.1 Lead Limit value 0.1%

Exceptions (examples – not completely)

- Batteries (marking required)
- Electrical components that contain lead encapsulated in a glass or ceramic matrix, with the exception of glass in incandescent lamps.
- Lead in the glass for cathode ray tubes, electronic components and fluorescent tubes
- For servers, storage systems and storage-array systems
- For network infrastructure equipment for switching, signal processing, transmission and network management in the field of telecommunications
- Lead in ceramic electronic components (e.g. piezo-electronic components)

7.4.2. Cadmium Limit value 0.01 %

7.4.3 Chromate (VI) Limit value 0.1%

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7.4.4. Mercury **Limit value** **0.1%**

Exceptions (examples - not completely)

Discharge lamps and instrument panel displays (marking "Hazardous Waste" required)

- Mercury in compact fluorescent lamps in a maximum quantity of 5 mg per lamp
- 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
- Mercury in rod-shaped fluorescent lamps for special purposes
- Mercury in other lamps not listed expressly in this appendix

7.4.5. Polybrominated biphenyls (PBB) **Limit value** **0,1 %**

7.4.6. Polybrominated diphenylethers (PBDE) **Limit value** **0,1 %**

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

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8. List

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA
Acetaldehyde	CAS: 75-07-0 EC: 200-836-8	F+,C3 Xn	Cleavage product , Plastic products	GefmaterialV REACH 06/2009	D
Acetamide	CAS: 60-35-5	Xn, C3	Solvent additive , Plasticizer	EG-GHS-VER	D
Acryl amide	CAS: 79-06-01 EC: 201-173-7	T,C2 Xi, Xn	Production of polyacrylamide Plastics, Polyacrylamide, synthesis of polymers, gels, A component of the coating means in the paper surface refinement.	EG-GHS-VER REACH 03/2010	D
Acrylonitrile	CAS: 107-13-1 EC: 203-466-5	F,T, N, C2, Xi	Production of polyacrylonitrile Elastomers	REACH 07/2009 ChemVerbotsV GefmaterialV	P
Aldrin	CAS: 309-00-2 EC: 206-215-8	T, N	Insecticide	Convention on POPs	P
Alkanes , Chloroalkanes C10 – C13, (Short Chain Chlorinated Paraffins)	CAS: 85535-84-8 EC: 287-476-5	F+, Xn	Natural gas, oil, plastics, fuels liquid gas, autogas, propellant for spray doses, diesel fuel, petroleum, fuel oil lubricating oil, anti-corrosion means, aviation petrol	REACH 28/10/2009	PA/ D
Alkylphenols Nonylphenol Nonylphenoethoxylate	CAS: 104-40-5 / 25154-52-3	C, N	in the metalworking industry (boron and flotation means), to the production of lubricating oil additives, in the textile industry (preparation of wool, softener), to the production of epoxy resins, color production, Component in wash and cleaning agents	ChemVerbotsV	P
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: a) 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 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 13/01/2010	D
Ammonia depleting Substances	CAS: 7664-41-7 EC:231-635-3	Xn	Cleavage product , nitrogen fertiliser Cooling	EG-GHS-VER ChemVerbotsV	PA/ D
Ammonium dichromate	CAS: 7789-09-5 EC: 232-143-1	E,T, N	Chromate colloid copying procedure, bleaching baths for Reversal development, screen printing forms,	REACH 18/06/2010	D
Aniline and its salts	CAS: 62-53-3 EC: 200-539-3	T, C1	Production of dyes sulfonamides, isocyanate plastic	GefmaterialV	D
Anthracene	CAS: 120-12-7 EC: 204-371-1	F,T, N	Production of dyes	REACH 28/10/2009	PA/ D
Anthracene oil	CAS: 90640-80-5 EC: 292-602-7	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 13/01/2010	PA
Anthracene oil, anthracene paste, distr. Lights	CAS: 91995-17-4 EC: 295-278-5	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 13/01/2010	D
Anthracene oil, anthracene paste, anthracene fraction	CAS: 91995-15-2 EC: 295-275-9	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 13/01/2010	D
Anthracene oil, anthracene low	CAS: 90640-82-7 EC: 292-604-8	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 13/01/2010	D
Anthracene oil, Anthracene paste	CAS:90640-81-6 EC: 292-603-2	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 13/01/2010	D
Antifouling coatings, constituents			See protection coatings, ester resins, modifi. hard resins, arsenic, hexachlorocyclohexane, mercury, chlorinated polypropylene and vinyl resins, organic tin compounds	GP ChemVerbotsV	PA/ D
Antimony and its compounds	CAS: 7440-36-0 EC: 231-146-5	T	Alloys	GP	D

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Antimony trioxide, diantimony trioxide	CAS: 1309-64-4 EC: 215-175-0	Xn C3	Flame retardant plastics	GP	D
Aromatic amines			Impurities in antioxidants, lubricants, elastomers, resins,		P
4-aminobiphenyl or its salts	CAS 92-67-1 EC: 202-199-1	T, C1 Xn	Intermediate product to the production of Azo coloring materials	ChemVerbotsV	P
benzidine or its salts	CAS: 92-87-5 EC: 202-199-1	T, Xn N,	Coloring and printing (Lines)		P
2- naphthylamine	CAS: 91-59-8 EC: 202-080-4	T, N, Xn	Azo coloring materials		P
4-nitrobiphenyl	CAS: 92-93-3 EC: 202-204-7	T, N	nitro compounds		P
2,4-DIAMINOANISOLE	EC: 210-406-1 CAS: 615-05-4	T, N, Xn	Azo coloring materials		REACH 06/2009 ChemVerbotsV
Trimethylaniline, 2,4,5-	CAS: 137-17-7 EC: 205-282-0	T, N	Azo coloring materials	REACH 06/2009 ChemVerbotsV	P
Arsenic and its compounds	CAS: 7440-38-2 EC: 231-148-6	T,N C1	Dyes and enamel glazes, Metal adhesive, A component of catalysts (for oil preparation); electrode component, coating material	GP ChemVerbotsV	PA
Asbestos	CAS: 1332-21-4	T	Friction linings Seals, insulating materials	ChemVerbotsV GefmaterialV REACH 07/2007	P
Azo colourants (as defined in TRGS 614)		C1	C2 in dyes Carcinogenic amine components	TRGS 614 GP	P
Barium compounds, organic or water soluble	CAS: 7440-39-3 EC: 231-149-1	F, Xi	Stabilizers in PVC Exception: Ba-carboxylate	EG-GHS-VER	D
PAH Polycyclic aromatic hydrocarbons			Rubber grasps at tools, ashes, waste oil, rubber products, motor-car tire. PAH arrive with burn of fossil sources of energy with the exhaust gases into air.	GADSL	D
Benzo (a) pyrene	CAS: 50-32-8 EC: 200-028-5	T, M2 N, C2	Product of incomplete burn	ChemverbotsV	P
Benzo (e) pyren	CAS: 192-97-2 EC: 205-892-7	T, N	Component of plasticizer	ChemverbotsV	PA / D
Benzo (a) anthracene	CAS: 56-55-3 EC: 200-280-6	T, N	Component of plasticizer	ChemverbotsV	PA / D
Benzo (b) fluoranthene (BbFA)	CAS: 205-99-2 EC: 205-911-9	T, N	Component of plasticizer	ChemverbotsV	PA / D
Benzo (j) fluoranthene (BbjA)	CAS: 205-82-3 EC: 205-910-3	T, N	Component of plasticizer	ChemverbotsV	PA / D
Benzo(k) fluoranthene (BbKA)	CAS: 207-08-9 EC: 205-916-6	T, N	Component of plasticizer	ChemverbotsV	PA / D
Chrysen (CHR)	CAS: 218-01-9 EC: 205-923-4	T, N	production of UV filters, sensitizers and coloring materials.	ChemverbotsV	PA / D
Dibenzo (a,h) anthracene (DBaHA)	CAS 53-70-3 EC: 200-181-8	T, N	Component of plasticizer	ChemverbotsV	PA / D
Benzol – Benzen	CAS: 71-43-2 EC: 200-753-7	F, T	Fuels, solvent (industrial procedures in closed systems)	ChemVerbotsV	P
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	CAS: 68515-42-4 EC: 271-084-6	T	Chemicals industry	REACH 06/2011	P
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	CAS: 71888-89-6 EC: 276-158-1	T	Chemicals industry	REACH 06/2011	P
Benzyl butyl phthalate	CAS: 85-68-7 EC: 201-622-7	T, N, C2	Plasticizer, elastomers, plastics, Thermo-plastics, floor mats on PVC basis, surface coating (automobiles), packing materials, ad-hesives and electricity installation materials.	REACH 28/10/2009	PA / D
Beryllium and its compounds	CAS: 7440-41-7 EC: 231-150-7	T+	in alloys, metal alloys, Contacts and feather/spring materials, high temperature materials, ceramic parts, glass,	GP	D
Beryllium Oxide	CAS: 1304-56-9 EC: 215-133-1	T, T+, Xi	in nuclear reactors, to the production of airplane spark plugs, crucibles, molds, Insulating material for radar eyes, lamps for fluorescence	REACH 06/2007 ChemVerbotsV	D
Biopersistent fibers		Xn, T+	Artificial mineral fibres from inorganic raw materials: Continuous (glass fibers), Mineral wool (Steinwolle), Ceramic fibres (aluminium silicate), Superfine fibers (special fibers),	ChemVerbotsV	P

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Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA
Lead	CAS: 7439-92-1 EC: 231-100-4	T, N	alloying element, brazing solder	ChemverbotsV	P
Lead hydrogen arsenate	CAS: 7784-40-9 EC: 232-064-2	T, N	Fungicide, pesticide	REACH 28/10/2009	PA / D
Lead carbonat waterless-neutral	CAS: 598-63-0 EC: 209-943-4	T, N	basic lead carbonate, dye, sealing coat	ChemverbotsV	P
Lead hydroxid carbonate	CAS: 1319-46-6 EC: 215-290-6	T, N	restoration	ChemverbotsV	P
Lead sulphate	CAS: 7446-14-2 and 15739-80-7	T, N	as substrate for lithografische color lacquers and tar coloring materials	ChemverbotsV	P
Lead chromate	CAS: 7758-97-6 EC 231-846-0	T, N	Pigments, synthetic coloring materials in ship lacquers.	ChemverbotsV	PA
Lead chromate molybdat sulfatred (Colour Index: Pigment red 104)	CAS: 12656-85-8 EC: 235-759	T, N	Carbon black, Impregnate, a sealing, corrosion protection	REACH 13/01/2010	D
Lead sulfochromate (Colour Index: Pigment yellow 34)	CAS 1344-37-2 EC 215-693-7	T, N	Pigments, synthetic coloring materials in rubber, plastics, colors	REACH 13/01/2010	D
Boric acid	CAS: 10043-35-3 / 11113-50-1 EC: 233-139-2/234-343-4	T	Disinfectant, preservative, flame protection means, employment in nuclear power stations with pressurized water reactors,	REACH 18/06/2010	D
Cadmium and its compounds	CAS: 7440-43-9 EC: 231-152-8	T+, N, C2	Surface protection, stabilizers, lake pigments, surface protection, engage ,glasses	ChemVerbotsV RoHS, GP	PA
Chloroaniline	CAS: 106-47-8 EC: 203-401-0	T, N, C2	Hardener and cross-linking agent in polymers and epoxy-based resins, plastics	EG-GHS-Ver 1999/45/EG	D
1-chlorine-2, 3-epoxy-propane	CAS:106-89-8 EC: 203-439-8	T, C2	Residual monomers in epoxy-based resins, Residue in epoxy-based resin	EG-GHS-Ver 1999/45/EG	D
Chlorinated biphenyls, see: polychlorinated biphenyls (PCB)	CAS: 1336-36-3 EC: 215-648-1	Xn, N	Insulating fluids, capacitors, transformers, Flame retardant in plastics, Plastic parts, also for electronic devices	GP ChemverbotsV	PA / D
Chlorinated hydrocarbons (CHC),			Flame retardant, Plastics	EU-RL2002/45 ChemVerbotsV	P
1,1 Dichloroethylene	CAS: 75-35-4	C3	Source material, polyvinylidene chloride	ChemVerbotsV	P
1,2,-Dichloroethane	CAS: 107-06-2 EC: 203-458-1	F, T; Xn, Xi	Vinyl chloride monomer (VCM) production , Solvents for resins	ChemVerbotsV REACH	P
cis-1,2-Dichlorethen	CAS: 156-59-2 EC : 205-859-7	F,Xn	Solvent for waxes, resins, fats, lacquers and polymers. for the production of other solvents and chlorinated compounds,	ChemVerbotsV REACH	P
1,3-Dichlorpropen,	CAS: 542-75-6 EGC: 208-826-5	T, N, Xn, Xi	By-product for the production For the production of Allylchlorid,	ChemVerbotsV REACH	P
Dichlormethan	CAS : 75-09-2 EC: 200-838-9	Xn	Remover for lacquers, degreasers and extraction agents, solvent for resins, fats, plastics and bitumen, refrigerant in refrigerators,	ChemVerbotsV REACH	PA
Hexachlorbuta-1,3-dien	CAS : 87-68-3 EG: 201-765-5	T, N	Hydraulic fluid, solvent for elastomers, cooling agents in transformers, adsorbents for gas impurities, biocide, plant protection agent, intermediate product with the production of fluorine-containing lubricant	ChemVerbotsV REACH	P
Pentachloroethane	CAS: 76-01-7 EC: 200-925-1	T, N C3	Solvent and solvent mixtures	ChemVerbotsV	PA
1,1,2,2 Tetrachloroethane	CAS: 79-34-5 EC: 201-197-8	T+, N	Solvent, coolant	GP ChemverbotsV	PA
1,1,1,2 Tetrachloroethane	CAS: 630-20-6 EC: 211-135-1	Xn	Impregnating agent, wood stains, spraying paint	GP ChemVerbotsV	PA
1,1,2 Trichloroethane	CAS: 79-00-5 EC: 201-166-9	Xn	Solvent for chlorinated rubber	GP ChemVerbotsV	PA
1,1,1 Dichloro-diphenyl-trichloroethane DDT	CAS:50-29-3 EC: 200-024-	T, C3 N	Pesdzides, solvent in dyes and adhesives	ChemVerbotsV Convention on POPs	P
Trichloroethene	CAS: 79-01-6 EC: 201-167-4	T	Cleaning and degreaser in the metallurgy, solvent in adhesives, dry-cleaning in the textile industry,	REACH 18/06/2010	PA / D

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Tetrachlorethen	CAS: 127-18-4 EC: 204-825-9	Xn, N	Solvent, cleaning	REACH ChemVerbotsV	PA
Tetrachloromethane (tetrachloromethane)	CAS: 56-23-5 EC: 200-262-8	T,N, C3	Solvent, cleaning	GefmaterialV	PA / D
Trichloromethane (chloroform)	CAS: 67-66-3 EC: 200-663-8	Xn	Solvent	ChemVerbotsV	PA
Chromium (VI) salts	CAS: 14977-61-8 EC: 239-056-8	O,T C2,N	Chromium pigments, chromated surfaces, pigments, coatings	RoHS	P
Chromium (III) compounds		C2	Corrosion inhibitors	GP	D
Chromium (VI) compounds	CAS: 18540-29-9	T, N	Chromium-containing cements, Surface treatment , in wood preservative, Alloying components, Tanning agent	REACH 06/2007 ChemVerbotsV	PA
Chrom	CAS:1333-82-0 EC: 215-607-8	O, T+, N	In the electroplating, in wood preservatives, for the production of chrome (IV) - oxide, Potassium dichro- mate and ammonium dichromate , as strong oxidizing agent (Jones oxidation).	REACH 15.12.2010	D
Chromic acid and Oligomers	CAS: 7738-94-5 EC:231-801-5	O,T+, N	As oxidizing agents in chemistry.	REACH 15.12.2010	D
Dichromic acid and Oligomers	CAS: 13530-68-2 EC: 236-881-5	T, N	As oxidizing agents in chemistry.	REACH 15.12.2010	D
Cobalt and its compounds	CAS: 7440-48-4		Hard metals, Galvanic coatings, alloys, alloy constituent	REACH	D
Cobalt(II)-chloride	CAS: 7646-79-9 EC: 231-589-4	T, N	Humidity indicators, drying agent, blue gel drying bags	REACH 28/10/2009	PA / D
Cobalt(II)-sulphate	CAS: 10124-43-3 EC: 233-334-2	T, N	Production of pigments and glazes in the porcelain painting, Photography, for ceramic(s), cobalt- electroplating, aquaristics	REACH 15.12.2010	D
Cobalt(II)-nitrate	CAS: 10141-05-6 EC: 233-402-1	T, N	production of highly pure cobalt and coloured pigments	REACH 15.12.2010	D
Cobalt(II)-carbonate	CAS: 513-79-1 EC: 208-169-4	T, N	As catalyst and pigment one uses. Is contained in ceramic(s) glazes as coloring material (blue).	REACH 15.12.2010	D
Cobalt(II)-acetate	CAS: 71-48-7 EC: 200-755-8	T, N	Bleaching and desiccator for lacquers, varnish and catalyst with the production of adipic acid.	REACH 15.12.2010	D
Chlordane	CAS:57-74-9 EC :200-349-0	Xn,N	in the agriculture to the ground and seeds treatment, in the grain, potato and vegetable growing, wood preservative	Convention on POPs	P
Chlordecone (KEPONE)	CAS: 143-50-0 EC: 205-601-3	T, N	Insect extermination means	Convention on POPs	P
Chromium-containing cements				ChemVerbotsV	P
4,4'-Diaminodiphenylmethane (MDA)	CAS: 101-77-9 EC: 202-974-4	T	Hardener for plastics, polymers	REACH 28/10/2009	PA / D
Diarsenic pentaoxide	CAS: 1303-28-2 EC: 215-116-9	C1	Fungicide	REACH 28/10/2009	PA / D
Diarsenic trioxide	CAS: 1327-53-3 EC: 215-481-4	T+,N C1	Production of glass tanning process, leather, fungicide	REACH 28/10/2009	PA / D
Dibutyl phthalate (DBP)	CAS: 84-74-2 EC: 201-557-4	T, C2 N	Plasticizer Seals, sealing foams, plastics	REACH 28/10/2009	PA / D
Dieldrin	CAS: 60-57-1 EC: 200-484-5	T+, N	Pesticide	Convention on POPs	P
Diisononyl phthalate (DINP)	CAS: 28553-12-0 EC: 249-079-5	C2	PlasticizerSeals, sealing foams, plastics	REACH 06/2009	P
Diocetyl phthalate (DNOP)	CAS: 117-84-0 EC: 204-214-7		Plasticizer Seals, foams, plastics	REACH 06/2009	PA / D
Diisobutyl phthalate (DIBP)	CAS: 84-69-5 EC: 201-553-2	T	Plasticisers in PUR foams, Plasticizer in plastics, laquers, adhesives	REACH 13/01/2010	P
2,4-Dinitrotoluene	CAS: 121-14-2 EC: 204-450-0	T, N, Xn	Plasticiser in PUR foams, Gelatinizing-plasticizing agent,	REACH 13/01/2010	D
Disodium tetraborate, anhydrous (Sodium tetraborate)	CAS: 1303-96-4/ 1330-43-4/ 12179- 04-3 EC: 215-540-4		in soap, in water softeners, in detergents, in disinfect- ants, finery means, bleaches, in insecticides, in wood preservatives, in flame protection means for insulating materials	REACH 18/06/2010	D

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Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA
DEGME Diethylene Glycol Monomethyl Ether	CAS: 111-77-3 EC: 203-906-6	Xn	Underbody protection at vehicles, seam from seals, sound absorption	REACH 06/2009 ChemVerbotV GefmaterialV	P
DEGBE Diethylene Glycol Monobutyl Ether	CAS: 112-34-5 EC: 203-961-6		Fire-extinguishing foam, in means for surface cleaning Plasticizer Seals, sealing foams, plastics	REACH 06/2009 ChemVerbotV GefmaterialV	P
DEHP Up to (2-ethyl(hexyl)phthalate)	CAS: 117-81-7 EC: 204-211-0	T, C2	Plasticizer , elastomers, plastics	REACH 28/10/2009	P
Endrin	CAS: 72-20-8 EC: 200-775-7	T+, N	Cotton and cultivation of grain: Insecticide	Convention on POPs	P
Ethylene glycol-ether acetate	CAS: 111-15-9 EC: 203-839	T, Xn	Plasticizer, plastics	REACH 06/2009	D
Ethylene glycol-methyl ether	CAS: 109-86-4 EC: 203-713-7	RF2, RE2	Plasticizer, plastics	REACH 06/2009 ChemVerbotsV GefmaterialV	D
2-Ethoxyethanol	CAS: 110-80-5 EC: 203-804-1	T	Solvent	REACH 15.12.2010	D
Chlorofluorocarbons (CFCs), Halons or other ozone depleting substances (HCFC, HFC, HBFC) Halons (CFCs, HBFCs, HCFCs)		N	Foaming agents (PU), polyurethane foams (PU), Cooling agent, fire-extinguishing agent, refrigerant insulating foams Coolants, air conditioning systems	Ozon Regulation (EC) Nr. 1005/2009, EC Reg. 842/2006 GP, CFC halon	P
Bromochlorodifluoromethane (halon 1211)	CAS: 353-59-3 EC: 206-537-9		Extinguishing agent, fire extinguishing systems	GP, CFC halon	P
Bromotrifluoromethane (halon 1301)	CAS: 74-83-9 EC: 200-813-2	N	Extinguishing agent, Extinguishing systems, e.g. in aircrafts	GP CFC halon	P
Bromomethane	CAS: 74-83-9 EC: 200-813-2	T, Xn, Xi, N,	Fungicide, nematocide, insecticide, pharmaceutical	ChemOzon- SchichtV	P
Dibromotetrafluoroethane (halon 2402)	CAS: 124-73-2 EC: 204-711-9	T, Xn N, Xi	Extinguishing agent Extinguishing systems	CFC halon	P
Formaldehyde	CAS: 50-00-0 EC: 200-001-8	T, C3	In plastics, adhesives and foamed polymers Residual in plastics	ChemVerbotsV	P
Heptachlor	CAS: 76-44-8 EC: 200-962-3	T, N	Insecticide, plant protection agent	Convention on POPs	P
Hexachlorbenzol	CAS: 118-74-1 EC : 200-273-9	T, N	Insecticide, ectoparasiticide treatment of sheep, applied directly on sheep or on raw wool	Convention on POPs	P
Hexachlorocyclohexane Incl. lindane	CAS: 58-89-9 EC: 200-401-2 CAS: 319-84-6 EC: 206-270-8 CAS: 319-85-7 EC: 206-271-3 CAS: 608-73-1 EC : 210-168-9	T, N, Xn	In the agriculture as insecticide, in wood preservatives, Antifouling colours, Coatings, colours	Convention on POPs	PA / D
Hexabromobiphenyl	CAS: 36355-01-8 EC: 252-994-2		Flame protection means in plastics and textiles	Convention on POPs	P
Hexabromocyclododecane HBCDD , all isomers	CAS: 25637-99-4, 3194-55-6, 134237-51-7, 134237-50-6, 134237-52-8 EC: 247-148-4, 221-695-9	keine	Flame retardant in plastics, elastomers, polymers, plastic	REACH 28/10/2009	PA / D
Hexachloroethane	CAS: 67-72-1 EC: 200-666-4	Xn	Production and processing of non-ferrous metals.	ChemVerbotsV	PA
Hydrazine	CAS: 302-01-2 EC: 206-114-9	T, N C	Residual monomers in plastics, colourants and adhesives, in colours	ChemVerbotsV GefmaterialV REACH 06/2009 REACH 06/2011	PA / D

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Isocyanate Polymethylene Polyphenyl Isocyanate (PAPI)	CAS 9016-87-0		Important intermediate product for the production from adhesives, foam materials of PU, elastomers, and high-quality lacquers to the use in the automobile industry, for airplane or tramcar lacquer finishes.	ChemVerbotsV GefStoffV REACH 07/2009	PA
Potassium chromate	CAS: 7789-00-6 EC: 232-140-5	T, N	A cooling lubricant component, preservative in cutting lubricants,	REACH 18/06/2010	D
Potassium dichromate	CAS: 7778-50-9 EC: 231-906-6	T, N, O	in the tannery, the electroplating, in the photo-graphy, in noble printing processes, particularly in the photolithography and rubber printing	REACH 18/06/2010	D
Methanol	CAS: 67-56-1 EC: 200-659-6	T F	Solvent	GP / GefmaterialV ChemVerbotsV REACH 06/2009	D
2-Methoxyethanol	CAS: 109-86-4 EC: 203-713-7	T, Xn	Solvent for lacquers, colors and resins	REACH 15.12.2010	D
Methylacrylamidomethoxy-acetate	CAS: 77402-03-0 EC: 401-890-7	T, Xn, Xi	Production of polymers, residues in plastics	ChemVerbotsV GefmaterialV REACH 06/2009	D
1-Methyl-2-pyrrolidone	CAS: 872-50-4 EC: 212-828-1	R, Xi	Solvent for polymers and some organic materials, reducing polyacrylonitrile, terephthalic acid polyester polymers	Reach 06/2011	PA
Mirex	CAS: 2385-85-5 EC: 219-196-6	Xn, N	Insecticide active substance	Convention on POPs	P
Monomethyldichlorodiphenyl methane	CAS: 81161-70-8		Production residues of polymers, Residues	ChemVerbotsV REACH 06/2009 GefmaterialV	D
Monomethyl dibromodiphenyl methane	CAS: 99688-47-8 EC: 402-210-1	N, Xn	Production residues of polymers, Residues	ChemVerbotsV REACH 06/2009 GefmaterialV	PA
Monomethyltetrachlordiphenyl methane	CAS: 76253-60-6 EC: 278-404-3	N	Production residues of polymers, Residues	ChemVerbotsV REACH 06/2009	PA
5 Tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	CAS: 81-15-2 EC: 201-329-4	E, Xn, N	Fragrances, cleaning products	REACH 20/10/2009	PA / D
Sodium azide	CAS: 26628-22-8 EC: 247-852-1	T+, N	Additive , algae growth inhibitor in cooling liquids	EG-GHS-VER	D
Sodium chromate	CAS: 7775-11-3 EC: 231-889-5	T, N	to the production of pigments, rust preventives, in the, dyeing factory, in the things printing as if pickle and oxidizing agents,	REACH 18/06/2010	D
Sodium dichromate, dehydrate	CAS: 7789-12-0 EC: 234-190-3		Galvanic	REACH, GP, RoHS	PA / D
2-Naphthylamine and its salts	CAS: 91-59-8 EC: 202-080-4	T, N, Xn	Antioxidants in polymers	ChemVerbotsV GefmaterialV	P
Nickel or nickel compounds	CAS: 7440-02-0 EC: 231-111-4	T	Metals, metal alloys, Danger from dusts, aerosols, weld smoke, Ni alloys	RoHS	PA
Nitrocellulose	CAS: 9004-70-0		Gas generators	EG-GHS-VER	D
4-Nitro-biphenyl	CAS: 92-93-3 EC: 202-204-7	C2 T, N		ChemVerbotsV REACH 06/2009 GefmaterialV	P
Nitrosamines, with exceptions depending on cooling lubricant				TRGS 552	PA
N-toly-n-xylo-p- phenylenediamine	70290-05-0			JIG	PA
PAH Polycyclic Aromatic Hydrocarbons	s. Benzo ...			GADSL ...	D
Pitch, coal tar, high temp.	CAS: 65996-93-2 EC: 266-028-2	Xn	Electrodes, corrosion protection	REACH 13/01/2010	D
Pentachlorobenzene	CAS: 608-93-5 EC: 210-172-5	F,Xn,N	Plant protection and disinfectant	Convention on POPs	P
Pentachlorophenol, (PCP) or its compounds		C3	Fungicide, wood preservative	ChemVerbotsV, REACH	P
Phenol	CAS: 108-95-2 EC: 203-632-7	T, C, Xn, Xi	Residual monomers in synthetic resins, Residues in plastics	EG-GHS-VER	D

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Phenylenediamine	CAS: 25265-76-3		Dyes plastics	VDA-list 232-101 (Automotive manufacture)	D
Perfluorooctance sulfonate (PFOS)	CAS: 45298-90-6 (salt anion) CAS: 1763-23-1 (acid)		Chromium plating, electrical industry, in the photography, in older fire-extinguishing foams (AFFF), in hydraulic fluids for the air and space travel, textiles, carpets, paper - oil and water resistant	ChemVerbotsV Convention on POPs PFOS banned	P
Polybrominated biphenyls (PBB)	CAS: 59536-65-1		Flame retardant in plastics Plastic parts, also for electronic devices	GP, RoHS	P
Polybrominated diphenylethers (PBDE)				Convention on POPs, GP, RoHS	
tetra-bromodiphenyl ether	CAS: 40088-46-9		Flame retardant in plastics Plastic parts, also for electronic devices	Convention on POPs	P
penta-bromodiphenyl ether PentaBDE	CAS: 32534-81-9 EC: 251-084-2	Xn, N		Convention on POPs	P
hexa-bromodiphenyl ether	CAS: 36483-60-0			Convention on POPs	P
hepta-bromodiphenyl ether	CAS: 68928-80-3	T		Convention on POPs	P
Octabromodiphenyl ether OctaBDE	CAS 32536-52-0 EC: 251-087-9	T		ChemVerbotsV GP, RoHS	P
Decabromodiphenyl ether DecaBDE	CAS: 1163-19-5 EC: 214-604-9			Convention on POPs	P
Polychlorinated naphthalene PCN	CAS: 38289-27-9		Fire-extinguishing foam	RoHS	P
Polychlorinated terphenyls (PCT)	CAS: 61788-33-8 EC: 262-968-2		Insulating fluids, transformers Hydraulic fluid, liquid for heat transmission	GP, RoHS ChemVerbotsV	P
Mercury and its compounds	CAS: 7439-97-6 EC: 231-106-7	T+, N	Gas-discharge lamps, switches Fluorescent lamps, energy-saving lamps	ChemVerbotsV GefmaterialV REACH 06/2009	PA
Radioactive substances			Ionisation source, smoke detectors, measurement devices,	GP	P
Hydrogen sulphide depleting Substances, Sulfur hexafluoride	7783-06-4 CAS: 2551-62-4	T+	Cleavage products Insulating gas,	EG-GHS-VER	D
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	RoHS	
Selenium and its compounds	CAS: 7782-49-2 EC: 231-957-4	T	Alloying additives, free-cutting steels, Cu Rectifiers, vulcanization accelerator, Cu alloys	GP	D
Styrene (vinyl benzene)	CAS: 100-42-5 EC: 202-851-5	Xn	Residual monomers in plastics, residues	ChemVerbotsV GefmaterialV REACH 06/2009	D
Styreneoxide (epoxy-styrene)	CAS: 96-09-3 EC: 202-476-7	T, Xn, Xi, C2	Residual monomers, e.g. in SMC, residues	ChemVerbotsV GefmaterialV REACH 06/2009	D
Strontiumchromat	CAS: 7789-06-2 EC: 232-142-6	T, N, Xn	corrosion prevention. used in alloys, for the aircraft industries , production of chrome pigments	Reach 06/2011	PA
Bis(tributyltin)oxide (TBTO)	CAS: 56-35-9 EC: 200-268-0	T, Xn N, Xi, C1	Fungicide, Textiles, coatings	REACH 28/10/2009	PA / D
Tar oils, in particular					
Creosote	CAS: 8001-58-9 EC: 232-287-5	T	Wood preservative, the tar oils or components out Tar oils contain and products, which consist totally or partly of wood or timber materials and were treated with wood preservatives.	ChemVerbotsV	PA
Creosote oil	CAS: 61789-28-4 EC: 263-047-8	T			PA
distillates (coal tar), naphthalene oil	CAS: 84650-04-4 EC: 283-484-8	T			PA
Creosote oil, acenaphthene	CAS: 90640-84-9 EC: 292-605-3	T			PA
High- simmering distillates (coal tar)	CAS 95996-91-0	T			P

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Anthracene oil	CAS: 90640-80-5 EC: 292-602-7	T	Wood preservative, the tar oils or components out Tar oils contain and products, which consist totally or partly of wood or timber materials and were treated with wood preservatives.	ChemVerbotsV	P
Tar acid, coal, raw	CAS: 65996-85-2	T			PA
Creosote, wood	CAS: 8021-39-4 EC: 232-419-1	T, C			PA
Low temperature-coal tar-alkaline, extracts of residues	CAS: 122384-78-5 EC: 310-191-5	T			PA
Tantalum	CAS: 7440-25-7 EC: 231-135-5		Electronics, medical application	Code of Conduct	
Tetraboron disodium heptaoxide, hydrate	CAS: 12267-73-1 EC: 235-541-3		Glass and ceramic(s) production, glass fibers, cleaning agent, detergent, biocides	REACH 18/06/2010	P
Tetrabromobisphenol A (TBBA)	CAS: 79-94-7 EC: 201-236-9	N	Flame retardant Polymers, plastic	EG-GHS-VER 1999/45/EG	D
Tetrachloromethane	CAS: 56-23-5 EC: 200-262-8	T, C3 N	See: chlorinated hydrocarbons degreasing or cleaning agents	ChemVerbotsV	P
Thallium and its compounds	CAS: 7440-28-0 EC: 231-138-1	T+	Sensors, electronic devices	GP	D
Thioperoxide carbonic diamide	CAS: 137-26-8 EC: 205-286-2	Xn N	Fungicide	EG-GHS-VER 1999/45/EG	D
Toluidine (o-toluidine)	CAS: 95-53-4 EC: 202-429-0	T, Xi N, C2	Production of dyes	ChemVerbotsV GefmaterialV REACH 06/2009	D
Toluene	CAS: 108-88-3 EC: 203-625-9	F, Xi Xn	adhesives, spray paint.	ChemVerbotsV	P
Toxaphen	CAS: 8001-35-2 EC: 232-283-3	T, N	Pesticide (cultivation of cotton, grain, fruits, and vegetables)	Convention on POPs	P
Trichlorobenzene, 1,2,4,	CAS: 120-82-1	Xn, N	Heat transmission means, termite poison, Solvent in the processing of polyester fibers, additive in oils and lubricants, intermediate product with the production of herbicides,	Convention on POPs	P
Trichlorophenol and its salts, (2,4,6-trichlorophenol)	CAS: 88-06-2 EC: 201-795-9	Xn N, C3	Fungicide, bactericide	EG-GHS-VER 1999/45/EG	D
Trichloropropane, (1,2,3-trichloropropane)	CAS: 96-18-4 EC: 202-486-1	T, Xn	Solvent, cross-linking agent , tri-functional cross-linking agent for polysulphide elastomers	ChemVerbotsV REACH 06/2009 GefmaterialV	D
Triethyl arsenate	CAS: 15606-95-8 EC: 427-700-2	T, N	Glass production, wood preservative, anti-decay agent	REACH 28/10/2009	PA / D
Trimethylphosphate and its related compounds	CAS: 512-56-1 EC: 208-144-8	T	Flame retardant, plastics	ChemVerbotsV REACH 06/2009 GefmaterialV	D
Triphenylphosphate or its related compounds	CAS: 115-86-6 EC: 204-112-2	N	Flame retardant, plastics	1999/45/EG	D
Tris(2-chloroethyl)phosphate	CAS: 115-96-8 EC: 204-118-5	T, N Xn	Add. Plasticisers, Flame retarding Plasticizer with flame retarding properties in acrylic resins, PUR, coatings.	REACH 13/01/2010	D
2,4,6 Tri-tert-butylphenol	CAS: 732-26-3		Petrochemical products.	GADSL	D
Vinyl chloride	CAS: 75-01-4 EC: 200-831-0	F+, T, C3	Residual monomers in polymers, Residues	ChemVerbotsV	P
Zinc and its compounds	CAS: 7440-66-6 EC: 231-175-3	N	Rust prevention, in metal alloys, rust protection colours, metal alloys, Zn pressure casting	GP	D
Organic tin compounds general trialkyltin and triaryl tin compounds Monoalkyltin and dialkyltin compound			Biocides Catalyst in PUR foams and stabilizer in PVC	REACH GP	PA
Di-μ-oxo-di-n-butylstanniniohydroxyboran DBB	CAS: 75113-37-0 EC: 401-040-5	T, Xn N, Xi		ChemVerbotsV	P

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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 hightemperature 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