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0. Change history

Note: When this TL is changed
>> the documents stored in the Rittal Internet download area must be updated <<

Rev.	Author	Released on / by (DD/MM/YYYY)	Change	Reason for the change
01	Dr. Schlewing	27/08/2009 Dr. Lang	Inclusion of the requirements REACH ECHA (SVHC list)	New EU Regulation ECHA REACH (EC) 1907/2006
02	Dr. Schlewing	28/01/2010 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 13/01/2010
03	E. Steller J. Schnaubelt	19/04/2011 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Inclusion in AA-TL035 Inclusion in AA-TL035 Inclusion in AA-TL035 Inclusion in AA-TL035 Inclusion in AA-TL035	New legal obligation EU/ECHA Extended SVHC list 15/12/2010 ChemVerbotsVO subst. banned Ozone layer Reg. (EC) 1005/2009 PCB/PCT substances banned POP substances banned PFOS substances banned
04	E. Steller J. Schnaubelt	15/07/2011 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 20/06/2011
05	E. Steller J. Schnaubelt	04/04/2012 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Inclusion of “RoHS 2” Inclusion “Conflict Minerals“ Inclusion “Ship Recycling”	New legal obligation EU/ECHA 19/12/2011, 09/02/2012, 14/02/12 New legal obligation EU “RoHS 2” Directive 2011/65/EU New legal obligation USA "Dodd-Frank Act" Art. 1502, US IHM convention
06	E. Steller J. Schnaubelt	03/08/2012 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 18/06/2012
07	V. Ganß J. Schnaubelt	07/02/2013 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 19/12/2012
08	V. Ganß J. Schnaubelt	17/07/2013 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Inclusion DMF	New legal obligation EU/ECHA Extended SVHC list 20/06/2013 EU legislation to DMF
09	V. Ganß J. Schnaubelt	18/02/2014 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 16/12/2013
10	V. Ganß J. Schnaubelt	28/07/2014 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 16/06/2014

Rev.	Author	Released on / by (DD/MM/YYYY)	Change	Reason for the change
11	V. Ganß J. Schnaubelt	03/02/2015 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 17/12/2014
12	V. Ganß J. Schnaubelt	10/07/2015 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Inclusion of "RoHS 3"	New legal obligation EU/ECHA Extended SVHC list 15/06/2015 New legal obligation EU "RoHS 3" RL (EU) 2015/863
13	V. Ganß J. Schnaubelt	19/02/2016 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Inclusion of IEC 62474	New legal obligation EU/ECHA Extended SVHC list 17/12/2015 IEC 62474 substance list
14	V. Ganß J. Schnaubelt	14/07/2016 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 20/06/2016
15	M. Haas J. Schnaubelt	06/04/2017 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 12/01/2017
16	M. Haas J. Schnaubelt	16/02/2018 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extentions of the SVHC list 07/07/2017 and 15/01/2018
17	M. Haas J. Schnaubelt	07/08/2018 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 27/06/2018
18	M. Haas J. Schnaubelt	08/05/2019 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Deletion RoHS exemptions Inclusion GADSL 01.02.2019 Inclusion of differing GP threshold levels	New legal obligation EU/ECHA Extended SVHC list 15/01/2019 New legal obligations regarding RoHS on the phasing out of exemptions GADSL Rev. 01.02.2019 GP_SDoC_ MEPC_269(68) MD - Material Declaration
19	M. Haas J. Schnaubelt	03/09/2019 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list	New legal obligation EU/ECHA Extended SVHC list 16/07/2019
20	J. Schnaubelt M.Ortmann	23.04.2021 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Inclusion REACH (EU) 2018/588 Inclusion REACH (EU) 2018/2005 Inclusion (EU) 2018/851 „SCIP" Recast Waste Direc. 2008/98/EC Inclusion UK REACH Inclusion (EU) 2019/1021 Inclusion (RU) RoHS 037/2016 Inclusion (CN) China RoHS II Inclusion VOC: CN GB30981 Inclusion TSCA: US-Ban Feb.2021	EU legislation ECHA / REACH: SVHC list issue date 19.01.2021 Addendum REACH Anh. XVII Change REACH Anh. XVII/51 ECHA REACH SVHC "SCIP" Database (from 05/01/2021) UK Brexit (as of 01/01/2021) Recast Regulation on POPs EAC RoHS Russia 2020 China RoHS II „SJ/T 11363" VOC CN:GB30981 as of 01/11/2020 TSCA: US EPA Toxic Substances Control Act, section 6

Rev.	Author	Released on / by (DD/MM/YYYY)	Change	Reason for the change
21	M. Ortmann	12.05.2022 Dr. Lang	Inclusion of the extended REACH ECHA SVHC list Inclusion Saudi RoHS Inclusion of the extended REACH ECHA SVHC list	EU legislation ECHA / REACH: SVHC-list issue date 08.07.2021 SASO 01-09-21-179 EU legislation ECHA / REACH: SVHC-list issue date 17.01.2022
22	M. Ortmann	09.03.2023 Guth	Inclusion of the extended REACH ECHA SVHC list	EU legislation ECHA / REACH: SVHC-list issue date 10.06.2022
22	M. Ortmann	09.03.2023 Guth	Inclusion of the extended REACH ECHA SVHC list	EU legislation ECHA / REACH: SVHC-list issue date 17.01.2023
23	M. Ortmann	21.03.2024 Guth	Inclusion of the extended REACH ECHA SVHC list	EU legislation ECHA / REACH: SVHC-list issue date 14.06.2023 EU legislation ECHA / REACH: SVHC-list issue date 23.01.2024
24	M. Ortmann	22.01.2025 Asam	Inclusion of the extended REACH ECHA SVHC list Inclusion EU Battery Regulation	EU legislation ECHA / REACH: SVHC-list issue date 27.06.2024 EU legislation ECHA / REACH: SVHC-list issue date 07.11.2024 EU legislation ECHA / REACH: SVHC-list issue date 21.01.2025 EU- Regulation (EU) 2023/1542

Rev.	Author	Released on / by (DD/MM/YYYY)	Change	Reason for the change
25	M. Ortmann	11.03.2026 Asam	Inclusion of EU Packaging Regulation (EU) 2025/40 PPWR (Packaging and Packaging Waste Regulation) Inclusion: PCTS Prohibition of Certain Toxic Substances Regulations, 2022 (Kanada) Inclusion of the extended REACH ECHA SVHC list Inclusion of the extended REACH ECHA SVHC list Inclusion Mercury Regulation (EC) 2017/852 Inclusion of the extended REACH ECHA SVHC list Update Green Passport Materialdeclaration to MPEC.370(80) Update: CN: GB 30981 (Limits for harmful substances in protective coatings)	New legislation on packaging. PCTS Prohibition of Certain Toxic Substances Regulations, 2022 (Kanada) EU legislation ECHA / REACH: SVHC-list issue date 25.Jun.2025 EU legislation ECHA / REACH: SVHC-list issue date 05.Nov.2025 EU-Verordnung zur Verwendung von Quecksilber EU legislation ECHA / REACH: SVHC-list issue date 04.Feb.2026 Update: Guideline for the Development of the Inventory of Hazardous Materials. Update: CN: GB 30981 (Limits for harmful substances in protective coatings)

1. Purpose

The manufacturing industry uses a large number of substances, auxiliary and process materials as well as base materials. These affect the environment, safety and quality of the products both during their life cycle and their disposal. In addition, many national, European and international legal standards prohibit or regulate the use of substances. This Technical Delivery Conditions regulates the ingredients of components, materials and articles for use in our products. It serves to ensure compliance with due diligence obligations in the supply chain, the sustainability of our product development and the conformity of our articles. It is insofar

- Technical Delivery Conditions to our suppliers
- Applicable document for the Rittal development guideline
- Applicable document for specifications
- Part of the general business conditions
- Information for customers

2. Fundamentals

This prohibition and declaration list specifies substances and substances groups with the potential risks for persons and the environment. Due to changes in legislation, an update became necessary to take into account the new legal obligations, inter alia:

- IEC 62474 - Electrotechnical Substance List / Material Declaration
- **REACH**: EU directive 1907/2006/EC, Reg. (EC) 790/2009, Reg. (EU) 109/2012, Reg. (EU) 125/2012 Reg. (EU) 2018/588, Reg. (EU) 2018/2005, UK REACH (= EU REACH SVHC list)
- REACH ECHA SVHC list < https://echa.europa.eu/candidate-list-table >
  ECHA "SCIP" database for SVHC reporting from 05/01/2021 under Waste Directive (EU) 2018/851

"All companies supplying articles containing SVHCs at a concentration > 0.1% w/w will have to enter certain information on these articles into ECHA's new "SCIP" database if the article is placed on the market on or after 5 January 2021. The aim of the database is to ensure that information on the contained SVHCs is available throughout the life cycle of products and materials, including the waste phase. The information in the database will be made available to waste operators and consumers.

- RoHS: EU directives 2002/95/EC, 2011/65/EU „RoHS 2“, Del. Directive (EU) 2015/863 “RoHS 3”
  "Restriction on the use of certain dangerous materials in electrical and electronic devices”
  RL (EU) 2017/2102 regarding amendment of Directive 2011/65/EU „RoHS 2“
  Del. Directive (EU) 2018/739 regarding amendment of exemption 6a of „RoHS 2“
  Del. Directive (EU) 2018/740 regarding amendment of exemption 6b of „RoHS 2“
  Del. Directive (EU) 2018/741 regarding amendment of exemption 6c of „RoHS 2“
  EAC (RU) RoHS 037/2016 „RoHS Russland 2020“ (= Substances and limits= EU RoHS II)
  China (CN) RoHS II „SJ/T 11363“ (= Substances and limits= EU RoHS II)
  Saudi RoHS SASO 01-09-21-179 (= Substances and limits= EU RoHS II)
- ChemVerbotsVO (German Chemical Prohibition Regulation)
- POP-Regulation 2019/1021 (New Version VO (EG) 850/2004 – aus „Stockholm Konvention“)
- ChemOzonSchichtVO (German Chemical And Ozone Layer Regulation)
- Convention on POPs (= Stockholm Convention) VO (EG) 850/2004
- GADSL Rev. 01.02.2019 Global Automotive Declaration Substance List (successor to VDA 202-101)
- EU recycled automotive guidelines (2000/53/EG (ELV-End of Life Vehicles Directive))
- Rittal CoC Code of Conduct = Rittal Company guide for social responsibility
- Conflict Minerals - Dodd-Frank-Act Sec. 1502 US law
- CTA "Act" - California Transparency in Supply Chains Act of 2010 (SB 657)
- TSCA = US EPA Toxic Substances Control Act, sec. 6 (Feb. 2021)
- StrlSchV: Radiation Protection Ordinance: Compliance with radioactive limits
- GP SDoC MEPC 370(80): Material Declaration
- EU Regulation 2023/1542 on batteries and waste batteries
- Inclusion (EU) 2025/40 PPWR Packaging- und Packaging Waste Regulation
- PCTS Canada-Prohibition of Certain Toxic Substances

This covers all materials, which, in particular

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

3. Applications & explanations / Declaration “D” / Prohibition “P” / Registration “Z”

This prohibition and declaration list is binding for all suppliers as a technical delivery condition.
The supplier has to ascertain, for all deliveries, that the substance prohibitions have been adhered to and that the concentrations are within the permitted threshold limit values.
Substances whose declaration is compulsory are marked with a "D". The concentration of the substance must be declared if it exceeds the limit value. Substances that are subject to 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. Listed substances must not be included in the delivered material with a concentration exceeding the limit value. The prohibition and limit value may refer to specific applications. It is not necessary to specify the concentration value if the concentration of the substance is below or equal to the limit value. In this case a confirmation of compliance with the regulation is sufficient (no declaration).
“Z” characterized materials (registration-obligated materials as per REACH appendix XIV) may be used without specific authorization only up to the end of their individual time limits.
If the certain limits cannot be adhered to due to special quality and use requirements 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).

The current list of the REACH candidate list (ECHA SVHC list) must always be adhered to, regardless of whether the substances are listed in this AA-TL-035 Technical Delivery Conditions. Link: https://echa.europa.eu/candidate-list-table
If there is no threshold limit value specified, 0.1 mass percentage w/w must always be adhered to according to REACH Art. 33 within the meaning of the ECJ decision Sept. 10, 2015 (Ref. No. C-106/2014) for homogenous material.

Regarding Conflict Minerals Compliance the current, international CMRT Reporting Template must be adhered to:
Link EICC_CFSI_CMRT: http://www.responsiblemineralsinitiative.org/conflict-minerals-reporting-template/
Link US SEC Dodd-Frank Act : http://www.sec.gov/News/Article/Detail/Article/1365171562058#.VRRpSPnF-So

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 Rittal Prohibition and declaration list is based on the legal norms valid at the time of compilation. If necessary, it will be replaced by an updated version.

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.
Substances	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 chemical solution consisting of two or more substances.

6.2 Details about the columns in the List (Sec. 8) until December, 2016

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” authorization requirement „ Z“

6.2.1 Details about the columns in the List (Sec. 8) from January, 2017, on

Column 1	Name (Substance name or Substance Group)
Column 2	EC no.: European Community number
Column 3	CAS no.: Chemical Abstracts Number
Column 4	Date of inclusion
Column 5	Relevance / Reason for inclusion
Column 6	Decision

6.3 Associated abbreviations

BedGgstV	Regulation: Specifies which materials are allowed for food-contact applications objects
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.
ChemOzonSchichtV	German Chemical and Ozone Layer Regulation
C	Caustic
C_X	Causes cancer, classification in accordance with EU-RL 67/548/EEC or TRGS 905.
CoC	Code of Conduct
D	Declaration required
E	Explosive
ECHA	European Chemicals Agency
EU-RL	European guidelines, including change and modification guidelines.
CLP / EG-GHS	Regulation (EG) Nr. 1272/2008 “CLP Policy” 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“ – inventory / substance list - Initial Norway IMO / IHM / Hongkong convention SR/CONF/45 / MD form: GP SDoC MEPC 269(68)
IEC	International Electrotechnical Commission
JIG	Joint Industry Guide (mostly relevant for Japan)
M_x	Changes genetic material, classification
N	Dangerous to the environment
O	Oxidizing
Ozone layer Reg (EC)	Ozone layer 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	Convention on POPs (= Stockholm Convention) 2019/1021 (New Version VO (EG) 850/2004, **P**ersistent **O**rganic **P**ollutants
REACH	Registration, Evaluation and Authorisation of Chemicals VO (EG) 1907/2006
RoHS	Restriction of Hazardous Substances: "Restriction on the use of certain dangerous materials in electrical and electronic devices” EU directives 2002/95/EC, 2011/65/EU „RoHS 2“, Del. Dir. (EU) 2015/863 “RoHS 3”, RL (EU) 2017/2102 regarding amendment of Directive 2011/65/EU „RoHS 2“, Del. Directive (EU) 2018/739 regarding amendment of exemption 6a of „RoHS 2“, Del. Directive (EU) 2018/740 regarding amendment of exemption 6b of „RoHS 2“, Del. Directive (EU) 2018/741 regarding amendment of exemption 6c of „RoHS 2“ EAC (RU) RoHS 037/2016 „RoHS Russia 2020“ / China (CN) RoHS II „SJ/T 11363“ Saudi RoHS SASO 01-09-21-179 (= Substances and limits= EU RoHS II)
StrlSchV	Radiation Protection Ordinance
SVHC	Substances of Very High Concern. List of candidates by ECHA. Restriction under REACH
T	Poisonous (in accordance with ChemG and EU-RL 67/548/EEC)
T+	Very poisonous (in accordance with ChemG and EU-RL 67/548/EEC)
TSCA	TSCA = US EPA Toxic Substances Control Act (Feb. 2021)
VOC	Volatile Organic Compounds: EU: RL 2004/42/EG > RL 2010/79/EU ; CN:GB30981-2020
TRGS	Technical rules for dangerous materials.
w/v	percent by weight based on the homogeneous material in RoHS
w/w	concentration “weight by weight“ for example, according to REACH
Xn	Damages health (in accordance with ChemG and EU-RL 67/548/EEC)
Xi	Irritant
Z	Substances subject to authorization REACH Annex XIV

7. Notes and Exemptions

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 cooling devices: Rittal “Pro Ozone” logo
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

The Rittal “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 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 Hazardous substances restrictions under RoHS

"Restriction on the use of certain dangerous materials in electrical and electronic devices**”**

7.4.1 Lead — Threshold limit value 0,1 %

(Exemptions – e.g. Batteries)

- EU directives 2002/95/EG, 2008/35/EG, 2008/385/EG, 2009/443/EG
- Directive 2005/618/EG: Limit values mass% per homogenous material
- Directive 2011/65/EU „RoHS 2“
- Del. directive (EU) 2015/863 “RoHS 3“
- RL (EU) 2017/2102 regarding amendment of Directive 2011/65/EU „RoHS 2“
- Del. Directive (EU) 2018/739 regarding amendment of exemption 6a of „RoHS 2“
- Del. Directive (EU) 2018/740 regarding amendment of exemption 6b of „RoHS 2“
- Del. Directive (EU) 2018/741 regarding amendment of exemption 6c of „RoHS 2“

Hazardous substances restrictions under RoHS (continued)

"Restriction on the use of certain dangerous materials in electrical and electronic devices"

7.4.2.	Cadmium	Limit value	0,01 %
7.4.3	Chromate (VI)	Limit value	0,1%
7.4.4.	Mercury	Limit value	0,1%
	(Exemptions – e.g. energy-efficient lamps)		
7.4.5.	Polybrominated biphenyls (PBB)	Limit value	0,1 %
7.4.6.	Polybrominated diphenylethers (PBDE)	Limit value	0,1 %
7.4.7	Phthalate (DBP, DIBP, DEHP, BBP)	Limit value	0,1 %

7.5. IEC 62474 - Electrotechnical Substance List / Material Declaration

This standard specifies the requirements, the content and format of data exchange for material declarations within the supply chain. Although this international standard was developed for the electrotechnical industry, the requirements and the format of data exchange are also applicable to other industries.
http://std.iec.ch/iec62474

8. List of Substances: Rittal Prohibition & Declaration List

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Acetaldehyde	CAS: 75-07-0 EC: 200-836-8	F+,C3, Xn	Cleavage product , Plastic products	GefmaterialV REACH 07/2009	D
Acetamide	CAS: 60-35-5	Xn, C3	Solvent additive , Plasticizer	EG-GHS-VER	D
Acrylamide	CAS: 79-06-1 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.	REACH 03/2010 SVHC	PA
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 10/2008 SVHC	P / D
Alkylphenols Nonylphenol Nonylphenolethoxylate	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
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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight			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 12/2011 SVHC	PA
Ammonia depleting Substances	CAS: 7664-41-7 EC:231-635-3	Xn	Cleavage product , nitrogen fertiliser Cooling	EG-GHS-VER ChemVerbotsV	PA
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 06/2010 Ann XIV ChemVerbotsV	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 10/2009 SVHC	P / D
Anthracene oil	CAS: 90640-80-5 EC: 292-602-7	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 01/2010 SVHC	PA
Anthracene oil, anthracene paste, distn. Lights	CAS: 91995-17-4 EC: 295-278-5	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 01/2010 SVHC	P / D
Anthracene oil, anthracene paste, anthracene fraction	CAS: 91995-15-2 EC: 295-275-9	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 01/2010 SVHC	P / D
Anthracene oil, anthracene low	CAS: 90640-82-7 EC: 292-604-8	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 01/2010 SVHC	P / D
Anthracene oil, Anthracene paste	CAS:90640-81-6 EC: 292-603-2	Xn	Carbon black, impregnating, sealing, corrosion protection	REACH 01/2010 SVHC	P / 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
Antimony and its compounds	CAS: 7440-36-0 EC: 231-146-5	T	**Alloys**	GP	D
Antimony trioxide, diantimony trioxide	CAS: 1309-64-4 EC: 215-175-0	Xn C3	**Flame retardant plastics**	GP	D

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Aromatic amines			Impurities in antioxidants, ubricants, elastomers, resins,	ChemVerbotsV	P
alpha-Bis(4-(dimethylamino)-phenyl)-4-(phenylamino)naphthalin-1-methanol (Solvent Blue 4)	CAS: 6786-83-0 EC: 229-851-8	N, Xi	In the production of printing and writing ink for coloring paper and mixtures.	REACH 06/2012 SVHC,	PA
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
4,4'-bis(dimethylamino)benzo-phenone (Michler's ketone)	CAS: 90-94-8 EC: 202-027-5	T	Intermediate in the production of Triphenyl-methane paint and other materials. As an additive in paints and pigments in paint and coating products. As an additive in the manufacture of electronic compo-nents and scientific research and development.	REACH 06/2012 SVHC,	PA
benzidine or its salts	CAS: 92-87-5 EC: 202-199-1	T, Xn N,	Coloring and printing (Lines)	ChemVerbotsV	P
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	EC: 219-943-6 CAS: 2580-56-5	Xn	In the production of ink, cleaning, coating materials, coloring paper, packaging, textiles, plastic products. In diagnostic and analytical applications.	REACH 06/2012 SVHC,	PA
4,4'-Bis(dimethylamino)-4"-(methylamino)trityl alkohol	EC: 209-218-2 CAS: 561-41-1	Xn	Production of ink and other materials to write	REACH 06/2012 SVHC,	PA
- naphthylamine	CAS: 91-59-8 EC: 202-080-4	T, N, Xn	Azo coloring materials	ChemVerbotsV	P
4-nitrobiphenyl	CAS: 92-93-3 EC: 202-204-7	T, N	nitro compounds	ChemVerbotsV	P
4-Methoxy-1,3-phenylenediamine	CAS: 615-05-4 EC: 210-406-1	T, N, Xn	Azo coloring materials	REACH 06/2009 SVHC ChemVerbotsV	P
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	CAS: 101-61-1 EC: 202-959-2	T, N	Intermediate in the production of dyes, reaction chemicals in research and development	REACH 06/2012 SVHC, ChemVerbotsV	PA
Trimethylaniline, 2,4,5-	CAS: 137-17-7 EC: 205-282-0	T, N	Azo coloring materials	REACH 06/2009 SVHC ChemVerbotsV	P
2-Methoxyanilin o-Anisidin	CAS: 90-04-0 EC: 201-963-1	T	intermediate in the manufacture of AZO colourings and pharmaceuticals	REACH 12./2011 SVHC 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
Arsenic acid	CAS: 7778-39-4 EC: 231-901-9	T, N	manufacture of arsenic compounds , manufacture circuit board	REACH 12/2011 SVHC ChemVerbotsV	PA
Asbestos	CAS: 1332-21-4	T	Friction linings Seals, insulating materials	ChemVerbotsV GefmaterialV REACH 07/2007C	P
Azo colourants (as defined in TRGS 614)		C1	C2 in dyes Carcinogenic amine components	TRGS 614 GP	P
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 the air.	GADSL	P / D
Benzo (a)pyrene	CAS: 50-32-8 EC: 200-028-5	T, M2 N, C2	Product of incomplete burn	ChemverbotsV	P / D
Benzo (e) pyren	CAS: 192-97-2 EC: 205-892-7	T, N	Component of plasticizer	ChemverbotsV	P / D
Benzo (a) anthracene	CAS: 56-55-3 EC: 200-280-6	T, N	Component of plasticizer	ChemverbotsV	P / D
Benzo (b) fluoranthene (BbFA)	CAS: 205-99-2 EC: 205-911-9	T,N	Component of plasticizer	ChemverbotsV	P / D
Benzo (j) fluoranthene (BbjA)	CAS: 205-82-3 EC: 205-910-3	T,N	Component of plasticizer	ChemverbotsV	P / D
Benzo (k) fluoranthene (BbKA)	CAS: 207-08-9 EC: 205-916-6	T,N	Component of plasticizer	ChemverbotsV	P / D

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Chrysen (CHR)	CAS: 218-01-9 EC: 205-923-4	T,N	production of UV filters, sensitizers and coloring materials.	ChemverbotsV	P
Dibenzo (a,h) antrhracene (DbaHA	CAS 53-70-3 EC: 200-181-8	T,N	Component of plasticizer	ChemverbotsV	P
Benzol – Benzen (excluded in fuels)	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 12/2011 SVHC ChemVerbotsV	P
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	CAS: 71888-89-6 EC: 276-158-1	T	Plasticizer in PVC	REACH 06/2011 SVHC	D
BBP Benzylbutylphthalate	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 10/2008 Ann. XIV „RoHS 3“: (EU) 2015/863 REACH Appendix XVII: (EU) 2018/2005	Z / PA
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	P
Biopersistent fibers		Xn,T+	Artificial mineral fibres from inorganic raw materials: Continuous (glass fibers), Mineral wool , Ceramic fibres (aluminium silicate),Superfine fibers (special fibers),	ChemVerbotsV	P
Lead	CAS: 7439-92-1 EC: 231-100-4	T, N	alloying element, brazing solder	RoHS REACH 06/2018, BattG, PPWR	PA
Lead azide	CAS: 13424-46-9 EC: 236-542-1	E, T , N Xn	initial detonators	REACH 12/2011 SVHC ChemVerbotsV	PA
Lead dipicrate	CAS: 6477-64-1 EC: 229-335-2	E, T , N Xn	initial detonators	REACH 12/2011	PA
Lead hydrogen arsenate	CAS: 7784-40-9 EC: 232-064-2	T,N	Fungicide, pesticide	REACH 10/2009 SVHC	P / 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(II) bis(methanesulfonate)	CAS: 17570-76-2 EC: 401-750-5	T, N	Coating process for electronic parts (boards)	REACH 06/2012 SVHC, ChemVerbotsV	PA
Lead chromate	CAS: 7758-97-6 EC 231-846-0	T,N	Pigments, synthetic coloring materials in ship lacquers.	REACH 01/2010 Ann. XIV	PA / Z
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 01/2010 ANN. XIV	Z
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 01/2010 Ann. XIV	Z
Lead arsenate	CAS: 3687-31-8 EC: 222-979-5	T, N	Production of arsenic trioxide, in raw materials for the production of copper, lead and precious metal	REACH 12/2011 SVHC ChemVerbotsV	PA
Lead 2,4,6-trinitro-m-phenylene dioxide	CAS: 15245-44-0 EC: 239-290-0	E, T, N, Xn	initial detonators for pyrotechnics, ammunition	REACH 12/2011 SVHC ChemVerbotsV	PA
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 06/2010 SVHC	D
Diboron trioxide	CAS: 1303-86-2 EC: 215-125-8	T	In glass, glass fibers, ceramic, flame retardants, catalysts, metallurgy, adhesives, colors, washing and cleaning agents, biocides and insecticides.	REACH 06/2012 SVHC, ChemVerbotsV	PA

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P/ PA / Z
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, BattG, PPWR	P
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
2,2'-dichloro-4,4'-methylenedianiline	CAS: 101-14-4 EC: 202-918-9	T, N, Xn	Production of polyurethanes, hardener	REACH 12/2011 SVHC ChemVerbotsV	D
Chlorinated biphenyls, see: **P**oly**C**hlorinated **B**iphenyls **(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	P
Chlorinated hydrocarbons (CHC)			Flame retardant, Plastics	EU-RL2002/45 ChemVerbotsV	P
1,1 Dichloroethylene	CAS: 75-35-4 EC: 200-864-0	F, Xn	Source material, polyvinylidene chloride	ChemVerbotsV	PA
1,2,-Dichlorroethane	CAS: 107-06-2 EC: 203-458-1	F, T;Xn, Xi	Vinyl chloride monomer (VCM) production , Solvents for resins	ChemVerbotsV REACH 12/2011 SVHC	PA / D
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	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	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	ChemVerbotsV	P
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 TSCA	P / D
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	Pesdizides, 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 06/2010 Ann. XIV	PA / D
Tetrachlorethen	CAS: 127-18-4 EC: 204-825-9	Xn, N	Solvent, cleaning	ChemVerbotsV	PA
Tetrachloromethane (tetrachloromethane)	CAS: 56-23-5 EC: 200-262-8	T,N, C3	Solvent, cleaning	GefStoffV	PA / D
Trichloromethane (chloroform)	CAS: 67-66-3 EC: 200-663-8	Xn	Solvent	ChemVerbotsV	PA
Calcium arsenate	CAS: 7778-44-1 EC: 231-904-5	T,N	pesticide, in raw materials for the production of copper, lead, precios metal	REACH 12/2011 SVHC 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 Dichromium tris(chromate)	CAS: 24613-89-6 EC: 246-356-2	O, T,C, N	Corrosion inhibitors Luftfahrt, Raumfahrt, Stahlproduktion	GP, REACH 12/2011 SVHC ChemVerbotsV	PA

Work Instructions Technical Delivery Conditions			Number: AA-TL-035	Rev25 11.03.2026
Title: Substances Prohibition and Declaration List			Scope: Rittal International	
Author: J. Schnaubelt	Department: QM-L	Approved: Dr. Lang	Release date: 10/08/2004	

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Chromium (VI) compounds	CAS: 18540-29-9	T, N	Chromium-containing cements, Surface treatment , in wood preservative, Alloying components,	RoHS, ChemVerbotsV, PPWR	P
Chromium trioxide	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 12/2010 SVHC	D
Chromic acid and Oligomers	CAS: 7738-94-5 EC:231-801-5	O,T+, N	As oxidizing agents in chemistry.	REACH 12/ 2010 SVHC	D
Dichromic acid and Oligomers	CAS: 13530-68-2 EC: 236-881-5	T, N	As oxidizing agents in chemistry.	REACH 12/ 2010 SVHC	D
Chromium-containing cements				ChemVerbotsV	P
Cobalt(II)-choride	CAS: 7646-79-9 EC: 231-589-4	T, N, Xn	Humidity indicators, drying agent, blue gel drying bags	REACH 12/2011 ChemVerbotsV	P
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),	REACH 12/ 2010 SVHC	D
Cobalt(II)-nitrate	CAS: 10141-05-6 EC: 233-402-1	T, N	production of highly pure cobalt and coloured pigments	REACH 12/ 2010 SVHC	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 12/ 2010 SVHC	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 12/ 2010 SVHC	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
Conflict Minerals Tantalum, Tin, Gold, Tungsten	Dodd-Frank Act, Sec. 1502, USA: Legal CMRT reporting obligations regarding the certified sourcing of the four “Conflict Minerals" within the supply chain			US Conflict Minerals Law	D
4,4’-Diaminodiphenylmethane (MDA)	CAS: 101-77-9 EC: 202-974-4	T	Hardener for plastics, polymers	REACH 10/2009 SVHC	Z / D
Diarsenic pentaoxide	CAS: 1303–28-2 EC: 215-116-9	C1	Fungicide	REACH 10/2009 SVHC	Z / PA / D
Diarsenic trioxide	CAS: 1327-53-3 EC: 215-481-4	T+,N, C1	Production of glass tanning process, leather, fungicide	REACH 10/2009 SVHC	Z / PA / D
DBP Dibutyl phthalate	CAS: 84-74-2 EC: 201-557-4	T, C2, N	Plasticizer Seals, sealing foams, plastics	REACH 10/2009 „RoHS 3“: (EU) 2015/863 REACH Appendix XVII: (EU) 2018/2005	Z / PA
DBP; DIBP; DEHP; BBP = This 4 Phthalates cumulative limit 1000 ppm (= 0.1%) w/w percent by weight homogeneous material = Relevance: IBM ; Danish Order No. 1113 of 26/11/2012 ; Delegated Directive „RoHS 3“ (EU) 2015/863					Z / PA
Dimethoxy ethyl phthalate **DMEP**	CAS: 117-82-8 EC: 204-212-6	T	Plasticizer Seals , plastics	REACH 12/2011 ChemVerbotsV	PA
Dieldrin	CAS : 60-57-1 EC : 200-484-5	T+, N	Pesticide	Convention on POPs	P
DINP Diisononyl phthalate	CAS: 28553-12-0 EC: 249-079-5	C2	Plasticizer in seals, sealing foams, plastics in the food industry	BedGgstV	P
DIDP Diisodecylphthalat	CAS: 26761-40-0 EC: 247-977-1 CAS: 68515-49-1 EC: 271-091-4		is used as plasticizer for PVC, especially for applications in the higher temperature range: used (for example in cable cars).Forbidden in children & baby items!	BedGgstV	P
DNOP Dioctyl phthalate	CAS: 117-84-0 EC: 204-214-7		Plasticizer Seals, foams, plastics	REACH 06/2009 SVHC	P
DIBP Diisobuthyl phthalate	CAS: 84-69-5 EC: 201-553-2	T	Plasticisers in PUR foams, Plasticizer in plastics, laquers, adhesives	REACH 01/2010 „RoHS 3“: (EU) 2015/863 REACH Appendix XVII: (EU) 2018/2005	Z / PA
2,4-Dinitrotoluene	CAS: 121-14-2 EC: 204-450-0	T, N, Xn	Plasticiser in PUR foams, Gelatinizing-plasticizing agent,	REACH 01/2010 SVHC	D / Z
Disodium tetraborate, anhydrous (Sodium tetraborate)	CAS : 1303-96-4 / 12179-04-3 EC : 215-540-4		in soap, water softeners, detergents, disinfectants, cleaning and bleaching agents, insecticides, wood preservatives and flame retardants	REACH 06/2010 SVHC	D
DEGME Diethylene Glycol Monomethyl Ether	CAS: 111-77-3 EC: 203-906-6	Xn	Underbody protection at vehicles, seam from seals, sound absorption	ChemVerbotV GefmaterialV	PA
DEGDME Diethylene glycol dimethyl ether	CAS: 111-96-6 EC: 203-924-4	T	Solvent, Solvents in batteries contained in diesel fuel	REACH 12/2011 ChemVerbotsV	PA

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
DEGBE Diethylene Glycol Monobutyl Ether	CAS. 112-34-5 EC: 203-961-6	Xi	Fire-extinguishing foam, in means for surface cleaning Plasticizer Seals, sealing foams, plastics	ChemVerbotV GefmaterialV	PA
DEHP Up to (2-ethyl(hexyl)phthalate)	CAS: 117-81-7 EC: 204-211-0	T, C2	Plasticizer , elastomers, plastics	REACH 10/2008 „RoHS 3“: (EU) 2015/863 REACH Appendix XVII: (EU) 2018/2005	Z / PA
DMF Dimethylfumarat	CAS: 624-49-7 EC: 210-849-0	Xn	Biocide used in packaging against mold infestation of shoes and (seat-) Furniture.	REACH 09/2012 Ann. XVII EU 2009/251/EG	P
Endrin	CAS : 72-20-8 EC : 200-775-7	T+, N	Cotton and cultivation of grain: Insecticide	Convention on POPs	P
1,2-dimethoxyethane; thylene glycol dimethyl ether (EGDME)	CAS: 110-71-4 EC: 203-794-9	F, T	Solvents, additive in the production of chemicals, electrolyte solution for lithium batteries.	REACH 06/2012 SVHC, ChemVerbotsV	PA
Ethylene glycol-ether acetate	CAS: 111-15-9 EC: 203-839	T, Xn	Plasticizer, plastics	REACH 06/2009 SVHC	D
Ethylene glycol-methyl ether	CAS: 109-86-4 EC: 203-713-7	T	Plasticizer, plastics	ChemVerbotsV REACH 12/2010 SVHC GefStoffV	PA
2-Ethoxyethanol	CAS: 110-80-5 EC: 203-804-1	T	Solvent	REACH 12/2010 SVHC	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	Ozone layer Reg. ChemOzonSchichtV	P
Bromochlorodifluoromethane (Halon 1211)	CAS: 353-59-3 EC: 206-537-9	N	Extinguishing agent, fire extinguishing systems	Ozone layer Reg. ChemOzonSchichtV	P
Bromotrifluoromethane (Halon 1301)	CAS: 75-63-8 EC: 200-887-6	N	Extinguishing agent, Extinguishing systems, e.g. in aircrafts	Ozone layer Reg. ChemOzonSchichtV	P
Bromomethane	CAS: 74-83-9 EC: 200-813-2	T, Xn, Xi, N,	Fungicide, nematicide, insecticide, pharmaceutical	Ozone layer Reg. ChemOzonSchichtV	P
Bromchlormethan (Halon 1011)	CAS: 74-97-5 EC: 200-826-3	Xn; N	Fungicide, nematicide, insecticide, pharmaceutica	Ozone layer Reg. ChemVerbotsV ChemOzonSchichtV	P
Dibromotetrafluoroethane (Halon 2402)	CAS: 124-73-2 EC: 204-711-9	T, Xn, N, Xi	Extinguishing agent, Extinguishing systems	Ozone layer Reg. ChemVerbotsV ChemOzonSchichtV	P
Formamide	EC: 200-842-0 CAS: 75-12-7	T	intermediate product, solvents, chemical reaction (in the pharmaceutical industry), laboratory chemicals, in the agrochemical, plasticizers.	ChemVerbotsV REACH 06/2012 SVHC,	PA
Formaldehyde	CAS: 50-00-0 EC: 200-001-8	T, C3	In plastics, adhesives and foamed polymers, Residual in plastics	REACH 05/2011 SVHC ChemVerbotsV	PA
Formaldehyde, oligomeric reaction products with aniline	CAS: 25214-70-4 EC: 500-036-1	T,	Hardener for the production of epoxy resins,adhesive,	REACH 12/2011 SVHC ChemVerbotsV	PA
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	P
Hexabromobiphenyl	CAS: 36355-01-8 EC: 252-994-2		Flame protection means in plastics and textiles	Convention on POPs	P

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Hexabromcyclododecan **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		Flame retardant in plastics, elastomers, polymers, plastic	REACH 10/2009 Ann. XIV / SVHC EU ban 22.03.2016 (GP ban 0,01%)	P
Hexachloroethane	CAS : 67-72-1 EC: 200-666-4	Xn	Production and processing of non-ferrous metals.	ChemVerbotsV	P
Hydrazine	CAS: 302-01-2 EC: 206-114-9	T, N, C	Residual monomers in plastics, colourants and adhesives, in colours	ChemVerbotsV GefStoffV REACH 06/2011 SVHC	PA
Isocyanate Polymethylene Polyphenyl Isocyanate (PAPI)	CAS 9016-87-0	Xn, Xi	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	PA
Potassium chromat	CAS : 7789-00-6 EC : 232-140-5	T, N	A cooling lubricant component, preservative in cutting lubricants,	REACH 06/2010 Ann. XIV	P
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 06/2010 Ann. XIV	P
Basic Violet 3 (C.I. 42555): [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	CAS: 548-62-9 EC: 208-953-6	T, N	to the dyeing of paper, ink cartridges and pens,	ChemVerbotsV REACH 06/2012 SVHC	PA
Methanol	CAS: 67-56-1 EC: 200-659-6	T F	Solvent	ChemVerbotsV GefStoffIV	PA
2-Methoxyethanol	CAS: 109-86-4 EC: 203-713-7	T, Xn	Solvent for lacquers, colors and resins	REACH 12/2010 SVHC	PA
Methylacrylamidomethoxy-acetate	CAS: 77402-03-0 EC: 401-890-7	T, Xn, Xi	Production of polymers, residues in plastics	ChemVerbotsV GefStoffV	PA
NMP 1-Methyl-2-pyrrolidone	CAS: 872-50-4 EC: 212-828-1	R, Xi	Solvent for polymers and some organic materials, roducing polyacrylonitrile, terephthalic acid polyester polymers	REACH 06/2011 SVHC REACH Appendix XVII: (EU) 2018/2005	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 GefStoffV	PA
Monomethyl dibromodiphenyl methane	CAS: 99688-47-8 EC: 402-210-1	N, Xn	Production residues of polymers, Residues	ChemVerbotsV GefStoffV	PA
Monomethyltetrachlordiphenyl methane	CAS: 76253-60-6 EC: 278-404-3	N	Production residues of polymers, Residues	ChemVerbotsV GefStoffV	PA
musk xylene 5 Tert-butyl-2,4,6-trinitro-m-xylene	CAS: 81-15-2 EC: 201-329-4	E, Xn, N	Fragrances, cleaning products	REACH 06/2009 Ann. XIV	Z
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 06/2010 SVHC	D
Sodium dichromate, dehydrate	CAS: 7789-12-0 EC: 234-190-3	T, N, O	Galvanic	REACH 10/ 2009 SVHC, GP, RoHS	P / D
2-Naphthylamine and its salts	CAS: 91-59-8 EC: 202-080-4	T, N,Xn	Antioxidants in polymers	ChemVerbotsV GefStoffV	P
Nickel and Nickel compounds	CAS: 7440-02-0 EC: 231-111-4	T	Metals, metal alloys, Danger from dusts, aerosols, weld smoke, Ni alloys	GP	D
Nitrocellulose	CAS: 9004-70-0	E	Gas generators	EG-GHS-VER	D
4-Nitro-biphenyl	CAS: 92-93-3 EC: 202-204-7	C², T, N		ChemVerbotsV GefStoffV	P
N-toly-n-xylol-p- phenylenediamine	CAS: 70290-05-0			JIG	PA
N,N-Dimethylacetamide	CAS: 127-19-5 EC: 204-826-4	T, Xn	Solvent, remover, extracting agent, catalyst	REACH 12/2011 SVHC ChemVerbotsV	PA

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
PAH Polycyclic **A**romatic **H**ydrocarbons	s. Benzo			GADSL	P / D
Pitch, coal tar, high temp.	CAS: 65996-93-2 EC: 266-028-2	Xn	Electrodes, corrosion protection	REACH 01/2010 SVHC	D
Pentachlorobenzene	CAS: 608-93-5 EC: 210-172-5	F,Xn,N	Plant protection and disinfectant	Convention on POPs	P
PCP Pentachlorophenol	CAS: 87-86-5 EC: 131-52-2	T, N	Fungicide, wood preservative	ChemVerbotsV,	P
PCTP Pentachlorthiophenol	**CAS: 133-49-3** **EC:** 205-**107-8**	**T, N**	Fungicide, wood preservative	TSCA	**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	P / D
Phenolphthalein	CAS: 77-09-8 EC: 201-004-7	T	pH-indicator pharmacy,	REACH 12/2011 SVHC ChemVerbotsV	PA
4-(1,1,3,3-Tetramethylbutyl)phenol	CAS: 140-66-9 EC: 205-426-2	Xi, N	for production of phenolic resins plastics and plastic coatings, Colors, lacquers, adhesives	REACH 12/2011 SVHC	D
Phenylenediamine	CAS: 25265-76-3		Dyes plastics	GADSL	D
PIP (3:1) Phenol, isopropylated, phosphate (3:1)	CAS: 68937-41-7 EC: 273-066-3	T, N	Fungicide, wood preservative	TSCA	P
Perfluorooctance sulfonate **(PFOS**)	CAS : 45298-90-6 CAS: 1763-23-1		Chromium plating, electrical industry, in the photo-graphy, 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 ban (GP ban 0,001%)	P
Polybrominated diphenylethers (PBDE)			Flame retardant in plastics Plastic parts, also for electronic devices	Convention on POPs, RoHS	P
Polybrominated biphenyls (**PBB)**	CAS: 59536-65-1			GP convention: 0,005% RoHS el. devices: 0,1%	PA
Tetra- bromodiphenyl ether	CAS: 40088-46-9			Convention on POPs, RoHS,	P
Penta- bromodiphenyl ether **PentaBDE**	CAS: 32534-81-9 EC: 251-084-2	Xn, N		Convention on POPs, RoHS	P
Hexa-bromodiphenyl ether	CAS: 36483-60-0	T		Convention on POPs, RoHS	P
Hepta-bromodiphenyl ether	CAS: 68928-80-3	T		Convention on POPs, RoHS	P
Octabromodiphenyl ether **OctaBDE**	CAS 32536-52-0 EC: 251-087-9	T		ChemVerbotsV Convention on POPs, RoHS	P
Decabromodiphenyl ether **DecaBDE**	CAS: 1163-19-5 EC: 214-604-9	T		REACH 12/2012 Convention on POPs / TSCA RoHS 2008: EU ECJ decision	P
Polychlorinated Biphenyls **(PCB)**	CAS: 1336-36-3 EC: 215-648-1		Insulation fluid in electrical systems, switch boards, transformers and condensers, as softening agent for wood and paper impregnation	ChemVerbotsV	P
Polychlorinated naphthalene **(PCN)**	CAS: 38289-27-9		retardants, Plasticizer,	JIG / POP GP convention: 0,005%	P
Polychlorinated terphenyls **(PCT)**	CAS: 61788-33-8 EC: 262-968-2		Insulating fluids, transformers Hydraulic fluid, liquid for heat transmission	ChemVerbotsV, GP,	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 , RoHS, BattG, PPWR	PA
Radioactive substances			Ionisation source, smoke detectors, measurement devices	GP	D

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
SF_6 : Sulfur hexafluoride Hydrogen sulphide depleting subst.	CAS: 2551-62-4 CAS: 7783-06-4	F+;T+, N	Cleavage products, Insulating gas	EG-GHS-VER	D
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	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	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 SVHC	PA
TBTO Bis(tributyltin)oxide	CAS: 56-35-9 EC: 200-268-0	T, Xn, N, Xi, C1	Fungicide, Textiles, coatings	REACH 10/2008 SVHC	PA
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 GefStoffV REACH 01/2010 SVHC	P
Creosote oil	CAS: 61789-28-4 EC: 263-047-8				
Distillates (coal tar), naphthalene oil	CAS: 84650-04-4 EC: 283-484-8				
Creosote oil, acenaphthene	CAS: 90640-84-9 EC: 292-605-3	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 GefStoffV REACH 01/2010 SVHC	P
High-simmering distillates (coal tar)	CAS 95996-91-0 EC: 266-026-1	T			
Anthracene oil	CAS: 90640-80-5 EC: 292-602-7	T			
Tar acid, coal, raw	CAS: 65996-85-2	T			
Creosote, wood	CAS: 8021-39-4 EC: 232-419-1	T, C			
Low temperature-coal tar-alkaline, extracts of residues	CAS:122384-78-5 EC: 310-191-5	T			
1,1,1-Trichloroethane Tetrachloromethane	CAS: 71-55-6 CAS: 56-23-5	XN, N	Cleaning compound	ChemRRV Ann. 1.4	P
Tetraboron disodium heptaoxide, hydrate	CAS: 12267-73-1 EC: 235-541-3	T	Glass and ceramic(s) production, glass fibers cleaning agent, detergent, biocides	REACH 06/2010 SVHC ChemVerbotsV	P
TBBA Tetrabromobisphenol A	CAS: 79-94-7 EC: 201-236-9	N	Flame retardant Polymers, plastic	EG-GHS-VER 1999/45/EG	P
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	P
Toluidine (o-toluidine)	CAS: 95-53-4 EC: 202-429-0	T, Xi, N, C2	Production of dyes	ChemVerbotsV GefmaterialV REACH 06/2009 SVHC	P
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	P
Trichlorpropane (1,2,3-trichlorpropane)	CAS: 96-18-4 EC: 202-486-1	T, Xn	Solvent, cross-linking agent , tri-functional cross-linking agent for polysulphide elastomers	REACH 06/2011 SVHC ChemVerbotsV	P

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Triethyl arsenate	CAS: 15606-95-8 EC: 427-700-2	T,N	Glass production, wood preservative,anti-decay agent	REACH 10/2008 SVHC	PA / D
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	CAS: 112-49-2 EC: 203-977-3	T	Solvents in the manufacture of chemicals, brake fluid, for the repair of motor vehicles.	REACH 06/2012 SVHC ChemVerbotV	P
TGIC (1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	CAS: 2451-62-9 EC: 219-514-3	T	Hardener for resins and coatings, printing paste for the production of electronic components and insulation material, resin shapes, lamination process, screen printing, adhesive, stabilizers	REACH 06/2012 SVHC ChemVerbotV	P
Trimethylphosphate and its related compounds	CAS: 512-56-1 EC: 208-144-8	T	Flame retardant, plastics	ChemVerbotsV GefmaterialV	P
Triphnylphosphate or its related compounds	CAS: 115-86-6 EC: 204-112-2	N	Flame retardant, plastics	EG-GHS-VER 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 01/2010 Ann. XIV	D / Z
2,4,6 Tri-tert-butylphenol (2,4,6-TTBP)	CAS: 732-26-3		Petrochemical products	GADSL / TSCA	D
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	CAS: 59653-74-6 EC: 423-400-0	T	Harder for resins and coatings, printing paste for the production of electronic components, and insulation material, resin shapes, lamination process, screen printing, adhesive, stabilizers	REACH 06/2012 SVHC ChemVerbotV	P
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 protect-tion colours, metal alloys, Zn pressure casting	GP	D
Pentazinc chromate octahydroxide	CAS: 49663-84-5 EC: 256-418-0	T, N	corrosion prevention,	REACH 12/2011 SVHC ChemVerbotsV	P
Potassium hydroxyoctaoxodizincatedichromate	CAS:234-329-8 EC: 11103-86-9	T, N, Xn	corrosion prevention	REACH 12/2011 SVHC ChemVerbotsV	P
Organic tin compounds general trialkyltin and triaryltin compounds Monoalkyltin and dialkyltin compound Di-µ-oxo-di-n-butylstanniniohydroxyboran **DBB**	CAS: 75113-37-0 EC: 401-040-5	T, Xn N, Xi	Biocides , Catalyst in PUR foams and stabilizer in PVC	REACH GP ChemVerbotsV	P
Zirconia Aluminosilicate Refractory Ceramic Fibres (RCF) 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 two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	Insulation, Fire protection – RCF Refractory ceramic fibres are used for hightemperature Insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for auto-motive and aircraft/ aerospace industry) and in fire protection (buildings and industrial process equipment).			REACH 12/2011 SVHC	PA

REACH SVHC list: 54 substances were included - ECHA 12/2012

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Pyrochlore, antimony lead yellow	CAS: 8012-00-8 EC: 232-382-1	N,T, C1+3	Used in coatings and paints, thinners, paint removes, ink and toners	REACH 12/2012 SVHC	PA
6-methoxy-m-toluidine (p-cresidine)	CAS: 120-71-8 EC: 204-419-1	T	Used as intermediate in manufacture of fine chemicals	REACH 12/2012 SVHC	PA
Henicosafluoroundecanoic acid	CAS: 2058-94-8 EC: 218-165-4			REACH 12/2012 SVHC	PA
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]	CAS: 25550-51-0 19438-60-9 48122-14-1 57110-29-9 EC: 247-094-1 243-072-0 256-356-4 260-566-1	Xn	Industrial use resulting in manufacture of another substance (use of intermediates), use of monomers for manufacture of thermoplastics, use of process regulators for polymerisation processes in production of resins, rubbers, polymers, as laboratory reagent	REACH 12/2012 SVHC	PA
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]	CAS: 85-42-7, 13149-00-3, 14166-21-3 EC: 201-604-9, 236-086-3, 238-009-9	Xn	Use as hardener for hepoxy resins, manufacure of resins, use as intermediate in chemical synthesis or process, manufacture of chemicals (including petroleum products), industrial use of monomers for manufacture of thermoplastics	REACH 12/2012 SVHC	PA
Dibutyltin dichloride (DBTC)	CAS: 683-18-1 EC: 211-670-0	T, N	Industrial use resulting in manufacture of another substance (use of intermediates) Use as an additive for the production of rubber tyres	REACH 12/2012 SVHC	PA
Lead bis(tetrafluoroborate)	CAS: 13814-96-5 EC: 237-486-0	T, N	Use in metal surface treatment products, including galvanic and electroplating products, non-metal-surface treatment products, in laboratory chemicals	REACH 12/2012 SVHC	PA
Lead dinitrate	CAS: 10099-74-8 EC: 233-245-9	O,T,N, Xi	Used in the manufacture of fine chemicals, manufacture of computer, electronic and optical products, electrical equipment	REACH 12/2012 SVHC	PA
Silicic acid, lead salt	CAS: 11120-22-2 EC: 234-363-3		Used in glass and ceramic articles	REACH 12/2012 SVHC	PA
4-Aminoazobenzene	CAS: 60-09-3 EC: 200-453-6	T,N,Xi	Raw material, used strictly controlled as intermediate, for the production of a pigment	REACH 12/2012 SVHC	PA
Lead titanium zirconium oxide	CAS: 12626-81-2 EC: 235-727-4		Used in the manufacture of computer, electronic and optical products, electrical equipment	REACH 12/2012 SVHC	PA
Lead monoxide (lead oxide)	CAS: 1317-36-8 EC: 215-267-0	T, N	Manufacture of computer, electronic and optical products, electrical equipment, used in general manufacturing, e.g. machinery, equipment, vehicles, other transport equipment, electrical batteries and accumulators , used in crystal glass production, in manufacture of rubber protection	REACH 12/2012 SVHC	PA
o-Toluidine	CAS: 95-53-4 EC: 202-429-0		Use as laboratory reagent	REACH 12/2012 SVHC	PA
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	CAS: 143860-04-2 EC: 421-150-7			REACH 12/2012 SVHC	PA

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Silicic acid ($H_2Si_2O_5$), 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]*	CAS: 68784-75-8 EC: 272-271-5		Used in coatings and paints, thinners, paint removes	REACH 12/2012 SVHC	PA
Trilead bis(carbonate)dihydroxide	CAS: 1319-46-6 EC: 215-290-6	T, N	Use as an intermediate, use in the semiconductor industry	REACH 12/2012 SVHC	PA
Furan	CAS: 110-00-9 EC: 203-727-3	F, T	Use for manufacture of other chemicals	REACH 12/2012 SVHC	PA
N,N-dimethylformamide	CAS: 68-12-2 EC: 200-679-5	T	Use as laboratory reagent and intermediate	REACH 12/2012 SVHC	PA
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated *[covering well-defined substances and UVCB substances, polymers and homologues]*	-		Used in coatings and paints, thinners, paint removes, in adhesives, sealants	REACH 12/2012 SVHC	PA
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]*	-		Used in coatings and paints, thinners, paint removes, in adhesives, sealants	REACH 12/2012 SVHC	PA
4,4'-methylenedi-o-toluidine	CAS: 838-88-0 EC: 212-658-8	T, N	Use as an intermediate	REACH 12/2012 SVHC	PA
Diethyl sulphate	CAS: 64-67-5 EC: 200-589-6		Use as an intermediate in the chemical industry	REACH 12/2012 SVHC	PA
Dimethyl sulphate	CAS: 77-78-1 EC: 201-058-1	T+	Use as an intermediate in the chemical industry	REACH 12/2012 SVHC	PA
Lead oxide sulfate	CAS: 12036-76-9 EC: 234-853-7		Use in manufacture of plastics products, including compounding and conversion	REACH 12/2012 SVHC	PA
Lead titanium trioxide	CAS: 12060-00-3 EC: 235-038-9	Xn	Use in manufacture of computer, electronic and optical products, electrical equipment	REACH 12/2012 SVHC	PA
Acetic acid, lead salt, basic	CAS: 51404-69-4 EC: 257-175-3	T, N	Use as laboratory reagent , use in manufacture of computer, electronic and optical products, electrical equipment	REACH 12/2012 SVHC	PA
[Phthalato(2-)]dioxotrilead	CAS: 69011-06-9 EC: 273-688-5		Use in manufacture of plastics products, including compounding and conversion	REACH 12/2012 SVHC	PA
N-methylacetamide	CAS: 79-16-3 EC: 201-182-6	T	Use as laboratory reagent	REACH 12/2012 SVHC	PA
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	CAS: 88-85-7 EC: 201-861-7	T, N	Use in the manufacture of bulk, large scale chemicals (including petroleum products), manufacture of plastics products, including compounding and conversion	REACH 12/2012 SVHC	PA
1,2-Diethoxyethane	CAS: 629-14-1 EC: 211-076-1	Xi	Used as an intermediate in chemical industry and as solvent	REACH 12/2012 SVHC	PA

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Tetralead trioxide sulphate	CAS: 12202-17-4 EC: 235-380-9		Use in the manufacture of rubber products, in manufacture of computer, electronic and optical products, electrical equipment, use in batteries	REACH 12/2012 SVHC	PA
N-pentyl-isopentylphthalate	CAS: 776297-69-9 EC: -			REACH 12/2012 SVHC	PA
Dioxobis(stearato)trilead	CAS: 12578-12-0 EC: 235-702-8		Use in the manufacture of plastics products for industrial and consumer use	REACH 12/2012 SVHC	PA
Tetraethyllead	CAS: 78-00-2 EC: 201-075-4		Use as an additive in motor and aviation gasoline	REACH 12/2012 SVHC	PA
Pentalead tetraoxide sulphate	CAS: 12065-90-6 EC: 235-067-7		Use in electrical batteries and accumulators, in plasic articles, use in manufacture of computer, electronic and optical products, electrical equipment	REACH 12/2012 SVHC	PA
Pentacosafluorotridecanoic acid	CAS: 72629-94-8 EC: 276-745-2			REACH 12/2012 SVHC	PA
Tricosafluorododecanoic acid	CAS: 307-55-1 EC: 206-203-2	Xi, C		REACH 12/2012 SVHC	PA
Heptacosafluorotetradecanoic acid	CAS: 376-06-7 EC: 206-803-4	C		REACH 12/2012 SVHC	PA
1-bromopropane (n-propyl bromide)	CAS: 106-94-5 EC: 203-445-0	F, T	Use in washing and cleaning products (including solvent based products), extraction agents	REACH 12/2012 SVHC	PA
Methoxyacetic acid	CAS: 625-45-6 EC: 210-894-6	T	Use as an intermediate in manufacture of fine chemicals	REACH 12/2012 SVHC	PA
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	CAS: 95-80-7 EC: 202-453-1	T, N	Use as an intermediate in manufacture of chemicals (incl. petroleum products)	REACH 12/2012 SVHC	PA
Methyloxirane (Propylene oxide)	CAS: 75-56-9 EC: 200-879-2	F, T	Use as intermediate, use in the manufacture of substances, industrial use for manufacture of thermoplastics, manufacture of chemicals (including petroleum products)	REACH 12/2012 SVHC	PA
Trilead dioxide phosphonate	CAS: 12141-20-7 EC: 235-252-2		Use in plastic articles, electrical batteries and accumulators	REACH 12/2012 SVHC	PA
o-aminoazotoluene	CAS: 97-56-3 EC: 202-591-2	T	Use in paints and varnishes	REACH 12/2012 SVHC	PA
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	CAS: 84777-06-0 EC: 284-032-2		Use in cosmetic articles	REACH 12/2012 SVHC	PA
4,4'-oxydianiline and its salts	CAS: 101-80-4 EC: 202-977-0	T, N	Monomer in imported polymer , use as intermediate in manufacture of chemicals	REACH 12/2012 SVHC	PA
Orange lead (lead tetroxide)	CAS: 1314-41-6 EC: 215-235-6	O, T, N	Use in the manufacture of batteries, rubber and plastic articles, ceramic and crystal glass products, used for repair of television sets, computer monitors and other devices containing cathode ray tube, used in coatings and paints, thinners, paint removes	REACH 12/2012 SVHC	PA
Biphenyl-4-ylamine	CAS: 92-67-1 EC: 202-177-1			REACH 12/2012 SVHC	PA
Diisopentylphthalate	CAS: 605-50-5 EC: 210-088-4		Used in the manufacture of propellants and explosives and to coat them to regulate rate of burn	REACH 12/2012 SVHC	PA
Fatty acids, C16-18, lead salts	CAS: 91031-62-8 EC: 292-966-7		Use in manufacture of plastic products, including compounding and conversion	REACH 12/2012 SVHC	PA

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	CAS: 123-77-3 EC: 204-650-8	Xn	Use in manufacture of plastic products, manufacture of construction chemicals, manufacture of coatings and inks, use as laboratory reagent	REACH 12/2012 SVHC	PA
Sulfurous acid, lead salt, dibasic	CAS: 62229-08-7 EC: 263-467-1		Manufacture of plastics products, including compounding and conversion	REACH 12/2012 SVHC	PA
Lead cyanamidate	CAS: 20837-86-9 EC: 244-073-9			REACH 12/2012 SVHC	PA
REACH SVHC list: 6 substances were included - ECHA 06/2013					
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]			In wash solutions, textiles	REACH 06/2013 SVHC	PA
Ammonium pentadecafluorooctanoate (APFO)	CAS: 3825-26-1 EC: 223-320-4	C, Xi	Used in insulators for electric wires, fire fighting foam and outdoor clothing	REACH 06/2013 SVHC	PA
Cadmium	CAS: 7440-43-9 EC: 231-152-8	T+, F, N Xn	Many common industrial uses as it is a key component in battery production, is present in cadmium pigments, coatings and is commonly used in electroplating	REACH 06/2013 SVHC	PA
Cadmium oxide	CAS: 1306-19-0 EC: 215146-2	T+, N, Xn	Use as a glass additive and as catalyst in hydrogenation and dehydrogenation of organic synthetic chemistry	REACH 06/2013 SVHC	PA
DPP Dipentyl phthalate	CAS: 131-18-0 EC: 205-017-9	T, N	As plasticizers in PVC products, children's toys	REACH 06/2013 SVHC	PA
Pentadecafluorooctanoic acid (**PFOA**)	CAS: 335-67-1 EC: 206-397-9	Xn	Used in insulators for electric wires, fire fighting foam and outdoor clothing, carpet-care liquids, home textiles, industrial floor wax and wax removers, sealants	REACH 06/2013 SVHC	PA
REACH SVHC list: 7 substances were included - ECHA 12/2013					
Cadmium sulphide	CAS: 1306-23-6 EC: 215-147-8	T, N	Part of production of anorganic pigments, additive of production of electronic parts	REACH 12/2013 SVHC	PA
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)	CAS: 1937-37-7 EC: 217-710-3		Kann als Pigment in Textil- und anderen Farben eingesetzt werden	REACH 12/2013 SVHC	PA
Dihexyl phthalate	CAS: 84-75-3 EC: 201-559-5		Plasticizers for cellulose and vinyl plastics	REACH 12/2013 SVHC	PA
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	CAS: 96-45-7 EC: 202-506-9	T	Common use as vulcanization accelerator in chloroprene- and polyacrylate rubber articles	REACH 12/2013 SVHC	PA
Trixylyl phosphate	CAS: 25155-23-1 EC: 246-677-8		Multiple use as a chemical in industry (flame retardant, implemental for metal treatment engineering, lubricants, hydraulic oil, plasticizers)	REACH 12/2013 SVHC	PA
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	CAS: 573-58-0 EC: 209-358-4	T	Use as a pigment in textile dyes and other paints	REACH 12/2013 SVHC	PA
Lead di(acetate)	CAS: 301-04-2 EC: 206-104-4	T, N	Common industrial use in coatings ang paints, thinners, paint remover, filling compounds, putties, modelling compound	REACH 12/2013 SVHC	PA

Work Instructions Technical Delivery Conditions			Number: AA-TL-035	Rev25 11.03.2026
Title: Substances Prohibition and Declaration List			Scope: Rittal International	
Author: J. Schnaubelt	Department: QM-L	Approved: Dr. Lang	Release date: 10/08/2004	

Substance / Substance Group	CAS/EC-Nr.	Hazard	Usage / Source	Relevance	D / P / PA / Z
REACH SVHC list: 4 substances were included - ECHA 06/2014					
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DIHP)	CAS: 68515-50-4 EC: 271-093-5		Used as lubricant in steering fluid and as plasticizers in plastics and coatings	REACH 06/2014 SVHC	PA
Sodium perborate; perboric acid, sodium salt	CAS: - EC: 239-172-9	T, Xn, Xi, O	Used as intermediate in chemical reactions and as bleaching agent mainly in household and professional detergents.	REACH 06/2014 SVHC	PA
Sodium peroxometaborate	CAS: 7632-04-4 EC: 231-556-4	T, Xn, Xi, O	Used as bleaching agent in laundry detergents and machine dishwashing products as well as in household cleaners. Used in some special laboratory chemicals.	REACH 06/2014 SVHC	PA
Cadmium chloride	CAS: 10108-64-2 EC: 233-296-7		Cadmium chloride is used for preparation of other chemicals, in laboratory, and also for photocopying, dyeing and electroplating.	REACH 06/2014 SVHC	PA
REACH SVHC list: 6 substances were included - ECHA 12/2014					
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	CAS: 3846-71-7 EC: 223-346-6		UV stabilizer, UV absorbers, UV screening agent	REACH 12/2014 SVHC	PA
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	CAS: 15571-58-1 EC: 239-622-4		Use in the plastics processing, Industrial use	REACH 12/2014 SVHC	PA
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)			• Heat stabilisation of PVC • Use in the plastics processing • Industrial use	REACH 12/2014 SVHC	PA
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	CAS: 25973-55-1 EC: 247-384-8		UV stabilizer, UV absorbers, UV screening agent	REACH 12/2014 SVHC	PA
Cadmium fluoride	CAS: 7790-79-6 EC: 232-222-0	T+, N	Production of glass, High-temperature dry film lubricant, optical electronics, Solar panels	REACH 12/2014 SVHC	PA
Cadmium sulphate	CAS: 10124-36-4 EC: 233-331-6	T+, N	Component for the preparation of inorganic cadmium compounds, Raw material for the surface treatment of metals, Lab chemicals	REACH 12/2014 SVHC	PA
REACH SVHC list: 2 substances were included - ECHA 06/2015					
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)	CAS: 68515-51-5 CAS: 68648-93-1 EC: 271-094-0 EC: 272-013-1		Plasticisers and lubricants, including use in adhesives, coatings, building material, cable compounding, polymer foils, PVC compounds and artist supply (e.g. modelling clay and finger paints).	REACH 06/2015 SVHC	PA
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]	CAS: - EC: -		Fragrances	REACH 06/2015 SVHC	PA
REACH SVHC list: 5 substances were included - ECHA 12/2015					
Perfluorononan-1-oic-acid and its sodium and ammonium salts	CAS: 375-95-1 CAS: 21049-39-8 CAS: 4149-60-4 EC: 206-801-3		Processing aid for fluoropolymer manufacture/lubricating oil additive/surfactant for fire extinguishers/cleaning agent/textile antifouling finishing agent/polishing surfactant/waterproofing agents and in liquid crystal display panels	REACH 12/2015 SVHC	PA
Nitrobenzene	CAS: 98-95-3 EC: 202-716-0		Manufacture of other substances	REACH 12/2015 SVHC	PA
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	CAS: 36437-37-3 EC: 253-037-1		UV-protection agents in coatings, plastics, rubber and cosmetics	REACH 12/2015 SVHC	PA
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	CAS: 3864-99-1 EC: 223-383-8		UV-protection agents in coatings, plastics, rubber and cosmetics	REACH 12/2015 SVHC	PA
1,3-propanesultone	CAS: 1120-71-4 EC: 214-317-9		Intermediate for the preparation ofFine and bulk chemicals; Electrolyte fluid of lithium ion batteries	REACH 12/2015 SVHC	PA

REACH SVHC list: 1 substance was included - ECHA 06/2016					
Substance / Substance Group	**CAS/EC-Nr.**	**Hazard**	**Usage / Source**	**Relevance**	**D / P / PA / Z**
Benzo[def]chrysene	CAS: 50-32-8 EC: 200-028-5	T, N. F	Benzopyrene is a polyaromatic hydrocarbon (PAH) found in coal tar. Benzopyrene is a known carcinogen.	REACH 06/2016 SVHC	PA

REACH SVHC list: 4 substances were included - ECHA 01/2017					
Name	**EC no.**	**CAS no.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
4,4'-isopropylidenediphenol Bisphenol A; **BPA**	201-245-8	80-05-7	12/01/2017	Toxic for reproduction (Article 57c)	ED/01/2017
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	-	-	12/01/2017	Equivalent level of concern having probable serious effects to environment (Article 57 f)	ED/01/2017
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid EC no.: 206-400-3 | CAS no.: 335-76-2 Decanoic acid, nonadecafluoro-, sodium salt EC no.: - | CAS no.: 3830-45-3 Ammonium nonadecafluorodecanoate EC no.: 221-470-5 | CAS no.: 3108-42-7	-	-	12/01/2017	Toxic for reproduction (Article 57c) PBT (Article 57 d)	ED/01/2017
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12/01/2017	Equivalent level of concern having probable serious effects to environment (Article 57 f)	ED/01/2017

REACH SVHC list: 1 substance was included - ECHA 07/2017					
Name	**EC no.**	**CAS no.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
Perfluorohexane-1-sulphonic acid and its salts **PFHxS**	-	-	07/07/2017	vPvB (Article 57e)	ED/30/2017

REACH SVHC list: 7 substances were included - ECHA 01/2018					
Name	**EC no.**	**CAS no.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
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 thereof	-	-	15/01/2018	vPvB (Article 57e)	ED 01/2018
Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	15/01/2018	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	ED 01/2018
Cadmium carbonate	208-168-9	513-78-0	15/01/2018	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	ED 01/2018
Cadmium hydroxide	244-168-5	21041-95-2	15/01/2018	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	ED 01/2018
Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	15/01/2018	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	ED 01/2018
Chrysene	205-923-4	218-01-9, 1719-03-5	15/01/2018	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	ED 01/2018
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 (4-HPbl)	-	-	15/01/2018	Endocrine disrupting properties (Article 57(f) - environment)	ED 01/2018

REACH SVHC list: 10 substances were included - ECHA 06/2018

Name	EC no.	CAS no.	Date of inclusion	Relevance / Reason for inclusion	Decision
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	209-008-0	552-30-7	27.06.2018	Respiratory sensitising properties (Article 57(f) - human health)	ED/61/2018 EU/2018/594
Benzo[ghi]perylene	205-883-8	191-24-2	27.06.2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Decamethylcyclopentasiloxane D5	208-764-9	541-02-6	27.06.2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	27.06.2018	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	EU/2018/636 ED/61/2018
Disodium octaborate	234-541-0	12008-41-2	27.06.2018	Toxic for reproduction (Article 57c)	ED 61/2018
Dodecamethylcyclohexasiloxane D6	208-762-8	540-97-6	27.06.2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Ethylenediamine EDA	203-468-6	107-15-3	27.06.2018	Respiratory sensitising properties (Article 57(f) - human health)	ED 61/2018
Lead	231-100-4	7439-92-1	27.06.2018	Toxic for reproduction (Article 57c)	ED 61/2018
Octamethylcyclotetrasiloxane D4	209-136-7	556-67-2	27.06.2018	PBT (Article 57d) vPvB (Article 57e)	ED 61/2018
Terphenyl, hydrogenated	262-967-7	61788-32-7	27.06.2018	vPvB (Article 57e)	ED 61/2018

REACH SVHC list: 6 substances were included - ECHA 01/2019

Name	EC no.	CAS no.	Date of inclusion	Relevance / Reason for inclusion	Decision
1,7,7-trimethyl-3-(phenylmethylene)bicycle [2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	239-139-9	15087-24-8	15.01.2019	Endocrine disrupting properties (Article 57(f) - environment)	ED/88/2018 EU/2018/2013
2,2-bis(4'-hydroxyphenyl) -4-methylpentane	401-720-1	6807-17-6	15.01.2019	Toxic for reproduction (Article 57c)	ED/88/2018
Benzo[k]fluoranthene	205-916-6	207-08-9	15.01.2019	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	ED/88/2018
Fluoranthene	205-912-4	206-44-0	15.01.2019	PBT (Article 57d) vPvB (Article 57e	ED/88/2018
Phenanthrene	201-581-5	85-01-8	15.01.2019	vPvB (Article 57e)	ED/88/2018
Pyrene	204-927-3	129-00-0	15.01.2019	PBT (Article 57d) vPvB (Article 57e)	ED/88/2018

REACH SVHC list: 4 substances were included - ECHA 07/2019					
Name	**EC no.**	**CAS no.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	-	16.07.2019	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	ED/71/2019
2-methoxyethyl acetate	203-772-9	110-49-6	16.07.2019	Toxic for reproduction (Article 57c)	ED/71/2019
4-tert-butylphenol	202-679-0	98-54-4	16.07.2019	Endocrine disrupting properties (Article 57(f) - environment)	ED/71/2019 EU/2019/1194
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	16.07.2019	Endocrine disrupting properties (Article 57(f) - environment)	ED/71/2019

REACH SVHC list: 4 substances were included – ECHA 01/2020					
Name	**EC no.**	**CAS no.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	16.01.2020	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	ECHA_01_2020.pdf
Diisohexyl phthalate	276-090-2	71850-09-4	16.01.2020	Toxic for reproduction (Article 57c)	ECHA_01_2020.pdf
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	16.01.2020	Toxic for reproduction (Article 57c)	ECHA_01_2020.pdf
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	16.01.2020	Toxic for reproduction (Article 57c)	ECHA_01_2020.pdf

REACH SVHC list: 4 substances were included – ECHA 06/2020					
Name	**EC no.**	**CAS no.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	25.06.2020	Toxic for reproduction (Article 57c)	D(2020)4578-DC
Butyl 4-hydroxybenzoate	202-318-7	94-26-8	25.06.2020	Endocrine disrupting properties (Article 57(f) - human health)	D(2020)4578-DC
2-methylimidazole	211-765-7	693-98-1	25.06.2020	Toxic for reproduction (Article 57c)	D(2020)4578-DC
1-vinylimidazole	214-012-0	1072-63-5	25.06.2020	Toxic for reproduction (Article 57c)	D(2020)4578-DC

REACH SVHC list: 2 substances were included – ECHA 01/2021

Name	EC no.	CAS no.	Date of inclusion	Relevance / Reason for inclusion	Decision
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	- 293-901-5 222-883-3	- 91648-39-4 3648-18-8	19.01.2021	Toxic for reproduction (Article 57c)	D(2020)9139-DC
Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	19.01.2021	Toxic for reproduction (Article 57c)	D(2020)9139-DC

REACH SVHC list: 8 substances were included – ECHA 07/2021

Name	EC no.	CAS no.	Date of inclusion	Relevance / Reason for inclusion	Decision
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	310-154-3	27459-10-5 27147-75-7 121158-58- 574499-35- 757427-55-1	08.07.2021	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	D(2021)4569-DC
orthoboric acid, sodium salt	238-253-6 215-604-1 237-560-2	25747-83-5 22454-04-2 14312-40-4 1333-73-9 13840-56-7 14890-53-0	08.07.2021	Toxic for reproduction (Article 57c)	D(2021)4569-DC
Medium-chain chlorinated paraffins (MCCP)	287-477-0 950-299-5	1372804-76-6 85535-85-9 198840-65-2	08.07.2021	PBT (Article 57d) vPvB (Article 57e)	D(2021)4569-DC
glutaral	203-856-5	111-30-8	08.07.2021	Toxic for reproduction (Article 57c)	D(2021)4569-DC.pdf
4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	08.07.2021	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	D(2021)4569-DC
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	201-289-8	75166-31-3 80-54-6 75166-30-2	08.07.2021	Toxic for reproduction (Article 57c)	D(2021)4569-DC.pdf
2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	253-057-0 221-967-7 202-480-9	1522-92-5 36483-57-5 3296-90-0 96-13-9	08.07.2021	Carcinogenic (Article 57a)	D(2021)4569-DC
1,4-dioxane	204-661-8	123-91-1	08.07.2021	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	D(2021)4569-DC

REACH SVHC list: 4 substances were included – ECHA 01/2022					
Name	**EC no.**	**CAS no.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17/01/2022	Toxic for reproduction (Article 57c)	D(2021)10043-DC
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate X4261	401-850-9	255881-94-8	17/01/2022	PBT (Article 57d)	D(2021)10043-DC
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	17/01/2022	Toxic for reproduction (Article 57c)	D(2021)10043-DC
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EG-Nr. : - | CAS-Nr. : 1782069-81-1 (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EG-Nr. : - | CAS-Nr. : 95342-41-9 (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EG-Nr. : - | CAS-Nr. : 852541-25-4 (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one EG-Nr. : 253-242-6 | CAS-Nr. : 36861-47-9 (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EG-Nr. : - | CAS-Nr. : 741687-98-9 (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EG-Nr. : - | CAS-Nr. : 852541-30-1 (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EG-Nr. : - | CAS-Nr. : 852541-21-0	-	-	17/01/2022	Endocrine disrupting properties (Article 57(f) - human health)	D(2021)10043-DC

Work Instructions Technical Delivery Conditions			Number: AA-TL-035	Rev25 11.03.2026
Title: Substances Prohibition and Declaration List			Scope: Rittal International	
Author: J. Schnaubelt	Department: QM-L	Approved: Dr. Lang	Release date: 10/08/2004	

REACH SVHC list: 1 substance were included – ECHA 06/2022					
Name	**EC-Nr.**	**CAS-Nr.**	**Aufnahmedatum**	**Relevanz / Begründung**	**Entscheidung**
N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	10.06.2022	Carcinogenic (Article 57a) Mutagenic (Article 57b)	D(2022)4187-DC

REACH SVHC list: 9 substances were included – ECHA 01/2023					
Name	**EC-Nr.**	**CAS-Nr.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	473-390-7	-	17-Jan-2023	vPvB (Article 57e)	D(2022)9120-DC
Perfluoroheptanoic acid and its salts Ammonium perfluoroheptanoate EG-Nr. : 228-098-2 | CAS-Nr. : 6130-43-4 potassium perfluoroheptanoate EG-Nr. : - | CAS-Nr. : 21049-36-5 Perfluoroheptanoic acid EG-Nr. : 206-798-9 | CAS-Nr. : 375-85-9 Sodium perfluoroheptanoate EG-Nr. : 243-518-4 | CAS-Nr. : 20109-59-5	-	-	17-Jan-2023	Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	D(2022)9120-DC
Melamine	203-615-4	108-78-1	17-Jan-2023	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	D(2022)9120-DC
Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	17-Jan-2023	Endocrine disrupting properties (Article 57(f) - human health)	D(2022)9120-DC
bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof Bis(2-ethylhexyl) tetrabromophthalate EG-Nr. : 247-426-5 | CAS-Nr. : 26040-51-7	-	-	17-Jan-2023	vPvB (Article 57e)	D(2022)9120-DC
Barium diboron tetraoxide	237-222-4	13701-59-2	17-Jan-2023	Toxic for reproduction (Article 57c)	D(2022)9120-DC

4,4'-sulphonyldiphenol	201-250-5	80-09-1	17-Jan-2023	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	D(2022)9120-DC
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	79-94-7	17-Jan-2023	Carcinogenic (Article 57a)	D(2022)9120-DC
1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1	17-Jan-2023	vPvB (Article 57e)	D(2022)9120-DC

REACH SVHC list: 2 substances were included – ECHA 06/2023					
Name	**EC-Nr.**	**CAS-Nr.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	75980-60-8	14-Juni-2023	Toxic for reproduction (Article 57c)	D(2023)3788-DC
Bis(4-chlorophenyl) sulphone	201-247-9	80-07-9	14-Juni-2023	vPvB (Article 57 e)	D(2023)3788-DC

REACH SVHC list: 5 substances were included – ECHA 01/2024					
Name	**EC-Nr.**	**CAS-Nr.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	700-960-7	-	23-Jan-2024	vPvB (Article 57e)	D(2023)8585-DC
Bumetrizole (UV-326)	223-445-4	3896-11-5	23-Jan-2024	vPvB (Article 57e)	D(2023)8585-DC
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	438-340-0	119344-86-4	23-Jan-2024	Toxic for reproduction (Article 57c)	D(2023)8585-DC
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	221-573-5	3147-75-9	23-Jan-2024	vPvB (Article 57e)	D(2023)8585-DC
2,4,6-tri-tert-butylphenol	211-989-5	732-26-3	23-Jan-2024	Toxic for reproduction (Article 57c) PBT (Article 57d)	D(2023)8585-DC

REACH SVHC list: 1 substance were included – ECHA 06/2024					
Name	**EC-Nr.**	**CAS-Nr.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
Bis(α,α-dimethylbenzyl) peroxide	201-279-3	80-43-3	27-Jun-2024	Toxic for reproduction (Article 57c)	D(2024)4144-DC

REACH SVHC list: 1 substance were included – ECHA 11/2024					
Name	**EC-Nr.**	**CAS-Nr.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
Triphenyl phosphate	204-112-2	115-86-6	07-Nov-2024	Endocrine disrupting properties (Article 57(f) - environment)	D(2024)6225-DC

REACH SVHC list: 5 substance were included – ECHA 01/2025					
Name	**EC-Nr.**	**CAS-Nr.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	701-118-1	2156592-54-8	21-Jan-2025	Toxic for reproduction (Article 57c)	D(2024)7663-DC
O,O,O-triphenyl phosphorothioate	209-909-9	597-82-0	21-Jan-2025	PBT (Article 57d)	D(2024)7663-DC
Octamethyltrisiloxane	203-497-4	107-51-7	21-Jan-2025	vPvB (Article 57e)	D(2024)7663-DC
Perfluamine	206-420-2	338-83-0	21-Jan-2025	vPvB (Article 57e)	D(2024)7663-DC
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	421-820-9	192268-65-8	21-Jan-2025	PBT (Article 57d)	D(2024)7663-DC

REACH SVHC-list: 3 substances were included – ECHA 06/2025					
Name	**EC-Nr.**	**CAS-Nr.**	**Aufnahmedatum**	**Relevanz / Begründung**	**Entscheidung**
tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{[4-chloro-6-({2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51) substance having a complex composition with <80% of the above constituents and other reaction side products	466-490-7	-	25-Jun-2025	Toxic for reproduction (Article 57c)	D(2025)4165-DC
decamethyltetrasiloxane	205-491-7	141-62-8	25-Jun-2025	vPvB (Article 57e)	D(2025)4165-DC
1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	241-867-7	17928-28-8	25-Jun-2025	vPvB (Article 57e)	D(2025)4165-DC

Work Instructions Technical Delivery Conditions			Number: AA-TL-035	Rev25 11.03.2026
Title: Substances Prohibition and Declaration List			Scope: Rittal International	
Author: J. Schnaubelt	Department: QM-L	Approved: Dr. Lang	Release date: 10/08/2004	

REACH SVHC list: 1 substance were included – ECHA 11/2025					
Name	**EC-Nr.**	**CAS-Nr.**	**Aufnahmedatum**	**Relevanz / Begründung**	**Entscheidung**
1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	284-366-9	84852-53-9	05-Nov-2025	vPvB (Article 57e)	D(2025)6375-DC

REACH SVHC list: 2 substance were included – ECHA 02/2026					
Name	**EC-Nr.**	**CAS-Nr.**	**Date of inclusion**	**Relevance / Reason for inclusion**	**Decision**
n-hexane	203-777-6	110-54-3	04-Feb-2026	Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	D(2025)7771-DC
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts Benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1) EG-Nr. : 278-305-5 | CAS-Nr. : 75768-65-9 Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyl(diethylamino)diphenylphosphonium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate (1:1) EG-Nr. : - | CAS-Nr. : - Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (1:1) EG-Nr. : - | CAS-Nr. : - disodium 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenolate EG-Nr. : 425-060-9 | CAS-Nr. : - 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (Bisphenol AF) EG-Nr. : 216-036-7 | CAS-Nr. : 1478-61-1 Phosphonium, tributyl(2-methoxypropyl)-, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1) EG-Nr. : 468-740-0 | CAS-Nr. : 126049-00-1 Reaction products of benzene,	-	-	04-Feb-2026	Specific target organ toxicity after repeated exposure (Article 57(f) - human health)	D(2025)7771-DC

chlorine and sulfur chloride (S2Cl2) with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol EG-Nr. : 469-080-6 | CAS-Nr. : 921213-47-0 benzyl(diethylamino)diphenylphosphonium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate EG-Nr. : 479-100-5 | CAS-Nr. : 577705-90-9 N,N-dibutyl-N-methylbutan-1-aminium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate EG-Nr. : 443-330-4 | CAS-Nr. : -					

9. Annex

Rittal_REACH_Compliance

Rittal_RoHS_Compliance

Rittal_CMRT Confict_Minerals Compliance

Rittal Ozone layer regulation Compliance

Rittal Asbestos-free Compliance

Rittal Material Declaration GP SDoC MEPC 269(68) Compliance

Link Website Product Related Environmental Compliance

DE: http://www.rittal.com/de-de/content/de/support/technischeswissen/qminformiert/produktumweltschutz/produktumweltschutz_1.jsp

COM: http://www.rittal.com/com-en/content/en/support/technischeswissen/qminformiert/produktumweltschutz/produktumweltschutz_1.jsp

10. Associated documents

- IEC 62474 http://std.iec.ch/iec62474
- POP Konvention
  http://www.bmub.bund.de/fileadmin/bmu-import/files/pdfs/allgemein/application/pdf/pop_konvention.pdf
  Verordnung (EG) Nr. 850/2004 des Europäischen Parlaments und des Rates vom 29. April 2004