

### List of prohibited substances – Mechanics

The substances listed below are prohibited by law or by Heidelberg internal restrictions in the relevant applications.  
The list will be updated continuously and has to be taken into account by the suppliers and users. All amendments are marked in **red**.

Substance	CAS NR.	Limit	prohibited	Exception	Regulation
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
[Phthalato(2-)]dioxotrilead	69011-06-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1-bromopropane (n-propyl bromide)	106-94-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1-Methyl-2-pyrrolidone	872-50-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,2-dichloroethane	107-06-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,2-Diethoxyethane	629-14-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,2,3-Trichloropropane	96-18-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
2-Ethoxyethanol	110-80-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
2-Ethoxyethyl acetate	111-15-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
2-Methoxyaniline; o-Anisidine	90-04-0	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
2-Methoxyethanol	109-86-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
2-Naphthylamine	91-59-8	< 0,1 Gew. %	all applications		EU REACH-VO. Anh. XVII
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
2,4-Dinitrotoluene	121-14-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]		= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
4-Aminobiphenyl	92-67-1	< 0,1 Gew. %	all applications		EU REACH-VO. Anh. XVII
4-Nitrobiphenyl	92-93-3	< 0,1 Gew. %	all applications		EU REACH-VO. Anh. XVII

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Substance	CAS NR.	Limit	prohibited	Exception	Regulation
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]		= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
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]		= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
5-tert-butyl-2,4,6- trinitro-m-xylene (Musk xylene)	81-15-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Acenaphthene	83-32-9	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Acenaphthylene	208-96-8	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Acetic acid, lead salt, basic	51404-69-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Acrylamide	79-06-1	< 0,1 Gew. %	Grouting applications		EU REACH-VO. Anh. XVII
Acrylamide	79-06-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Actinolite	77536-66-4	= 0 Gew. %	all applications		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight		= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Ammonium dichromate	7789-09-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)

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Amosite	12172-73-5	= 0 Gew. %	all applications		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
Anthophyllite	77536-67-5	= 0 Gew. %	all applications		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
Anthracene	120-12-7	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Anthracene	120-12-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Anthracene oil	90640-80-5	= 3 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII
Arsenic acid	7778-39-4	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Arsenic compounds		= 0 Gew. %	As substances or in mixtures a) intended for use to prevent the fouling by micro-organisms, plants or animals of any totally or partly submerged appliances or equipment, b) intended for use in the treatment of industrial waters, c) used in preservation of wood		EU REACH-VO. Anh. XVII
Benzidine	92-87-5	< 0,1 Gew. %	all applications		EU REACH-VO. Anh. XVII
Benzo(a)anthracene	56-55-3	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Benzo(a)pyrene	50-32-8	<= 1 mg/kg	all applications		D: GS-Zeichen (AtAV)
Benzo(b)fluoranthene	205-99-2	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Benzo(e)pyrene	192-97-2	<= 1 mg/kg	all applications		D: GS-Zeichen (AtAV)
Benzo(ghi)perylene	191-42-2	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Benzo(j)fluoranthene	205-82-3	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Benzo(k)fluoranthene	207-08-9	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Benzyl butyl phthalate (BBP)	85-68-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Biocidal products		= 0 Gew. %	all applications	Biocidal products can be used if they are authorised in accordance with Regulation (EU) No 528/2012	EU: VO 528/2012 [Biozid]
Biphenyl-4-ylamine	92-67-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Bis(2-methoxyethyl) ether	111-96-6	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Bis(2-methoxyethyl) phthalate	117-82-8	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Bis(tributyltin)oxide (TBTO)	56-35-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Boric acid	10043-35-3 (11113-50-1)	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Cadmium	7440-43-9	<= 100 mg/kg	in packaging or packaging material		CH ChemRRV, Anhang   D: VerpackV
Cadmium	7440-43-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Cadmium and cadmium compounds	7440-43-9	<= 0,01 Gew. %	electrical and electronic equipment		EU: RL 2011/65 (EU-RL 2002/95) [RoHS]

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Cadmium and cadmium compounds	7440-43-9			Lead and cadmium in ion selective electrodes including glass of pH electrodes.	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Cadmium and cadmium compounds	7440-43-9	< 0,1 Gew. %	Paints and varnishes with a high content of zinc		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
Cadmium and cadmium compounds	7440-43-9	<= 0,01 Gew. %	giving colour to articles manufactured from the substances and mixtures listed in REACH ANNEX XVII, Nr. 23		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
Cadmium and cadmium compounds	7440-43-9	= 0 Gew. %	cadmium plating metallic articles or components of articles used in printing presses		EU REACH-VO. Anh. XVII
Cadmium and cadmium compounds	7440-43-9	<= 0,01 Gew. %	stabilising mixtures or articles manufactured from polymers or copolymers of vinyl chloride as to packaging material, textile fabrics, tubes and pipes, coating of steel sheet	mixtures and articles using cadmium-based stabilisers for safety reasons	EU REACH-VO. Anh. XVII
Cadmium oxide	1306-19-0	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
<b>Cadmium sulphide</b>	<b>1306-23-6</b>	<b>= 0,1 Gew. %</b>	<b>all applications</b>		<b>EU REACH-VO. Anh. XIV (Kandidatenliste)</b>
Calcium arsenate	7778-44-1	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Chlordane	57-74-9	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Chlordecone	143-50-0	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Chloroethene (vinyl chloride)	75-01-4	= 0 Gew. %	as propellant in aerosols		EU REACH-VO. Anh. XVII
Chromic acid, Oligomers of chromic acid	7738-94-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Chromic acid, Oligomers of dichromic acid	13530-68-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Chromium trioxide	1333-82-0	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Chrysene	218-01-9	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Chrysotile	12001-29-5	= 0 Gew. %	all applications		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
cis-cyclohexane-1,2-dicarboxylic anhydride [2]	13149-00-3	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
CMR-Substances and Azocolourants listed in REACH Regulation Appendices 1-6, 8 and 9		= 0 Gew. %	all applications		EU REACH-VO. Anlagen 1-6, 8 und 9
Cobalt dichloride	7646-79-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Cobalt(II)-carbonate	513-79-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Cobalt(II)-diacetate	71-48-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Cobalt(II)-dinitrate	10141-05-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Cobalt(II)-sulphate	10124-43-3	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Creosote oil, acenaphthene fraction; wash oil	90640-84-9	= 1 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII
Creosote oil; wash oil	61789-28-4	= 0 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII

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Creosote, wood	8021-39-4	= 5 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII
Creosote; wash oil	8001-58-9	= 0 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII
Crocidolite	12001-28-4	= 0 Gew. %	all applications		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
Cyclohexane-1,2-dicarboxylic anhydride [1] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
DecaBDE (Decabromodiphenylether)	1163-19-5	<= 0,1 Gew. %	electrical and electronic equipment		CH ChemRRV, Anhang   EU: RL 2011/65 (RoHS)   USA: State of Washington (House Bill 1024), State of Maine (Chapter 629, LD 1790).
Di-μ-oxo-di-n-butylstanniohydroxyborane/ Dibutyltin hydrogen borate C 8 H 19 BO 3 Sn (DBB)	75113-37-0	<= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XVII
Diarsenic pentaoxide	1303-28-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Diarsenic trioxide	1327-53-3	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Dibenzo(ah)anthracene	53-70-3	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Diboron trioxide	1303-86-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Dibutyl phthalate (DBP)	84-74-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Dibutyltin dichloride (DBTC)	683-18-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Dichloromethane	75-09-2	= 0 Gew. %	Paint strippers		EU REACH-VO. Anh. XVII
Dichromium tris(chromate)	24613-89-6	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
<b>Dihexyl phthalate</b>	<b>84-75-3</b>	<b>= 0,1 Gew. %</b>	<b>all applications</b>		<b>EU REACH-VO. Anh. XIV (Kandidatenliste)</b>
Diisobutyl phthalate	84-69-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Diisopentylphthalate	605-50-5	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Dioxobis(stearato)trilead	12578-12-0	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Dipentyl phthalate (DPP)	131-18-0	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Diphenylether, octabromo derivative	32536-52-0	< 0,1 Gew. %	all applications		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
<b>Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diyl]bis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)</b>	<b>573-58-0</b>	<b>= 0,1 Gew. %</b>	<b>all applications</b>		<b>EU REACH-VO. Anh. XIV (Kandidatenliste)</b>
<b>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)</b>	<b>1937-37-7</b>	<b>= 0,1 Gew. %</b>	<b>all applications</b>		<b>EU REACH-VO. Anh. XIV (Kandidatenliste)</b>
Fatty acids, C16-18, lead salts	91031-62-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Fluoranthene	206-44-0	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Fluorene	86-73-7	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Fluorinated greenhouse gases		= 0 Gew. %	all applications		EU: VO 842/2006

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Formaldehyde, oligomeric reaction products with aniline	25214-70-4	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Formamide	75-12-7	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Fully halogenated CFCs		= 0 Gew. %	all applications		EU: VO 1005/2009   USA: Clean Air Act
Halons		= 0 Gew. %	all applications		EU: VO 1005/2009   USA: Clean Air Act
Heavy anthracene oil	65996-91-0	= 2 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII
Henicosafuoroundecanoic acid	2058-94-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Heptabromodiphenyl ether	207122-16-5	< 0,001 Gew. %	in substances, preparations, articles or as constituents of the flame-retarded parts of articles.		EU: VO 850/2004 (VO 757/2010)
Heptabromodiphenyl ether	207122-16-5	< 0,1 Gew. %		when produced partially or fully from recycled materials or materials from waste prepared for re-use;	EU: VO 850/2004 (VO 757/2010)
Heptachlor	76-44-8	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Heptacosafuorotetradecanoic acid	376-06-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Hexabromobiphenyl	36355-01-08	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Hexabromocyclododecane (HBCDD) CAS No: 3194-55-6 25637-99-4 alpha-hexabromocyclododecane CAS No: 134237-50-6, beta-hexabromocyclododecane CAS No: 134237-51-7 gamma-hexabromocyclododecane CAS No: 134237-52-8	25637-99-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Hexabromodiphenyl ether	207122-15-4	< 0,001 Gew. %	in substances, preparations, articles or as constituents of the flame-retarded parts of articles.		EU: VO 850/2004 (VO 757/2010)
Hexabromodiphenyl ether	207122-15-4	< 0,1 Gew. %		articles and preparations when produced partially or fully from recycled materials or materials from waste prepared for re-use	EU: VO 850/2004 (VO 757/2010)
Hexachlorocyclohexanes	608-73-1, 58-89-9	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Hexachloroethane	67-72-1	= 0 Gew. %	as substance or in mixtures intended for the manufacturing or processing of non-ferrous metals		EU REACH-VO. Anh. XVII
Hexahydro-1-methylphthalic anhydride [3]	48122-14-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Hexahydro-3-methylphthalic anhydride [4]	57110-29-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Hexahydro-4-methylphthalic anhydride [2]	19438-60-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Hexahydromethylphthalic anhydride [1] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Hexavalent chromium	18540-29-9	<= 0,1 Gew. %	electrical and electronic equipment		EU: RL 2011/65 (EU-RL 2002/95) [RoHS]

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Hexavalent chromium	18540-29-9			Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Hexavalent chromium	18540-29-9	<= 100 mg/kg	in packaging and packaging material		CH ChemRRV, Anhang   D: VerpackV
Hydrazine	302-01-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Hydrobromofluoromethanes, -ethanes or -propanes		= 0 Gew. %	all applications		EU: VO 1005/2009   USA: Clean Air Act
Hydrochlorofluoromethanes, -ethanes or -propanes		= 0 Gew. %	all applications		EU: VO1005/2009   USA: Clean Air Act
<b>Imidazolidine-2-thione; (2-imidazoline-2-thiol)</b>	<b>96-45-7</b>	<b>= 0,1 Gew. %</b>	<b>all applications</b>		<b>EU REACH-VO. Anh. XIV (Kandidatenliste)</b>
Indeno(1-,2,3-cd)pyrene	193-39-5	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Lead	7439-92-1	<= 0,1 Gew. %	in electrical and electronic equipment		EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1	<= 0,35 Gew. %		(6a) Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1	<= 0,4 Gew. %		(6b) Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1	<= 4 Gew. %		(6c) Copper alloy containing up to 4 % lead by weight	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1			13(a) Lead in white glasses used for optical applications	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1			13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1			Lead and cadmium in ion selective electrodes including glass of pH electrodes.	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1			Lead in counterweights.	EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Lead	7439-92-1	<= 100 mg/kg	in packaging or packaging material		CH ChemRRV, Anhang   D: VerpackV
Lead carbonates:	598-63-0	= 0 Gew. %	Inks		EU REACH-VO. Anh. XVII
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Lead cyanamidate	20837-86-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
<b>Lead di(acetate)</b>	<b>301-04-2</b>	<b>= 0,1 Gew. %</b>	<b>all applications</b>		<b>EU REACH-VO. Anh. XIV (Kandidatenliste)</b>
Lead dinitrate	10099-74-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Lead hydrogen arsenate	7784-40-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Lead monoxide (lead oxide)	1317-36-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Lead oxide sulfate	12036-76-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Lead sulphates	7446-14-2, 15739-80-7	= 0 Gew. %	Inks		EU REACH-VO. Anh. XVII
Lead(II) bis(methanesulfonate)	17570-76-2	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline	122384-78-5	= 6 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII
Mercury	7439-97-6	<= 0,0005 Gew. %	in batteries and accumulators		EU: RL 2006/66 über Batterien und Akkumulatoren
Mercury	7439-97-6	<= 100 mg/kg	packaging or packaging material		CH ChemRRV, Anhang   D: VerpackV



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Mercury	7439-97-6	= 0 Gew. %	in measuring and control equipment where the EU RoHS directive does not apply (equipment works without electricity)		CH ChemRRV, Anhang
Mercury and its compounds	7439-97-6 u.a.	<= 0,1 Gew. %	electrical and electronic equipment		EU: RL 2011/65 (EU-RL 2002/95) [RoHS]
Mercury and its compounds	7439-97-6 u.a.	= 0 Gew. %	as substances or in mixtures to prevent the fouling by micro-organisms, plants or animals of any totally or partly submerged appliances or equipment; as substances or in mixtures in the treatment of industrial waters, irrespective of their use.		EU REACH-VO. Anh. XVII
Methoxyacetic acid	625-45-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Methyloxirane (Propylene oxide)	75-56-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Mirex	2385-85-5	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Monomethyl-dibromo-diphenyl methane	99688-47-8	= 0 Gew. %	all applications		EU REACH-VO. Anh. XVII
Monomethyl-dichloro-diphenyl methane	81161-70-8	= 0 Gew. %	all applications		EU REACH-VO. Anh. XVII
Monomethyl-tetrachloro-diphenyl methane	76253-60-6	= 0 Gew. %	all applications		EU REACH-VO. Anh. XVII
N-pentyl-isopentylphthalate	776297-69-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
N,N-dimethylacetamide	127-19-5	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Naphthalene	91-20-3	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Naphthalene oil	84650-04-4	= 0 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII
o-aminoazotoluene	97-56-3	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Orange lead (lead tetroxide)	1314-41-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Organostannic compounds		= 0 Gew. %	as substances or in mixtures a) acting as biocide in free association paint, b) acting as biocide to prevent the fouling by micro-organisms, plants or animals in any totally or partly submerged appliance or equipment c) intended for use in the treatment of industrial waters.		EU REACH-VO. Anh. XVII
PBB (polybrominated biphenyl)		<= 0,1 Gew. %	electrical and electronic equipment		CH ChemRRV, Anhang   EU: RL 2011/65 (RoHS)
PBDE (polybrominated diphenyl-ether)		<= 0,1 Gew. %	electrical and electronic equipment		CH ChemRRV, Anhang   EU: RL 2011/65 (RoHS)



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Pentabromodiphenyl ether	32534-81-9	< 0,001 Gew. %	in substances, preparations, articles or as constituents of the flame-retarded parts of articles.		EU: VO 850/2004 (VO 757/2010)
Pentabromodiphenyl ether	32534-81-9	< 0,1 Gew. %		articles and preparations when produced partially or fully from recycled materials or materials from waste prepared for re-use	EU: VO 850/2004 (VO 757/2010)
Pentachlorobenzene	608-93-5	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Pentachlorophenol	87-86-5	< 0,1 Gew. %	all applications		EU REACH-VO. Anh. XVII
Pentacosfluorotridecanoic acid	72629-94-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Pentadecafluorooctanoic acid (PFOA)	335-67-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Pentalead tetraoxide sulphate	12065-90-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Perfluorooctane sulfonic acid and its derivatives (PFOS)	45298-90-6	< 0,001 Gew. %	in substances and preparations		EU: VO 850/2004 (VO 757/2010)
Perfluorooctane sulfonic acid and its derivatives (PFOS)	45298-90-6	< 1 µg / m <sup>2</sup>		for textiles or other coated materials	EU: VO 850/2004 (VO 757/2010)
Phenanthrene	85-01-8	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Phenolphthalein	77-09-8	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Phenylmercury 2-ethylhexanoate	13302-00-6	< 0,01 Gew. %	all applications from Oct. 10, 2017		EU REACH-VO. Anh. XVII
Phenylmercury acetate	62-38-4	< 0,01 Gew. %	all applications from Oct. 10, 2017		EU REACH-VO. Anh. XVII
Phenylmercury neodecanoate	26545-49-3	< 0,01 Gew. %	all applications from Oct. 10, 2017		EU REACH-VO. Anh. XVII
Phenylmercury octanoate	13864-38-5	< 0,01 Gew. %	all applications from Oct. 10, 2017		EU REACH-VO. Anh. XVII
Phenylmercury propionate	103-27-5	< 0,01 Gew. %	all applications from Oct. 10, 2017		EU REACH-VO. Anh. XVII
Pich, coal tar, high temp.	65996-93-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Polychlorinated Biphenyls (PCB)	1336-36-3	= 0 Gew. %	all applications		EU: VO 850/2004 (VO 757/2010)
Polychlorinated terphenyls (PCTs)	61788-33-8	<= 0,005 Gew. %	all applications		EU REACH-VO. Anh. XVII
Potassium chromate	7789-00-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Potassium dichromate	7778-50-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Potassium hydroxyoctaoxidizincatedichromate	11103-86-9	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Pyrene	129-00-0	<= 10 mg/kg	all applications		D: GS-Zeichen (AtAV)
Pyrochlore, antimony lead yellow	8012-00-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Radioactive substances		<= 0,1 Bq/g	all applications		HDM
Silicic acid, lead salt	11120-22-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Sodium chromate	7775-11-3	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Sodium dichromate	7789-12-0 10588-01-9	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Strontium chromate	7789-06-2	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Sulfurous acid, lead salt, dibasic	62229-08-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Tar acids, coal, crude; crude phenols	65996-85-2	= 4 Gew. %	as substances or in mixtures intended for the treatment of wood		EU REACH-VO. Anh. XVII

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Tetraboron disodium heptaoxide, hydrate	1330-43-4, (wasserfrei) 12179-04-3, (Pentahydrat) 1303-96-4, (Decahydrat)	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Tetraboron disodium heptaoxide, hydrate	12267-73-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Tetrabromodiphenyl ether	40088-47-9	< 0,001 Gew. %	in substances, preparations, articles or as constituents of the flame-retarded parts of articles.		EU: VO 850/2004 (VO 757/2010)
Tetrabromodiphenyl ether	40088-47-9	< 0,1 Gew. %		in articles and preparations when produced partially or fully from recycled materials or materials from waste prepared for re-use	EU: VO 850/2004 (VO 757/2010)
Tetrolead trioxide sulphate	12202-17-4	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
trans-cyclohexane-1,2-dicarboxylic anhydride [3]	14166-21-3	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Tremolite	77536-68-6	= 0 Gew. %	all applications		CH ChemRRV, Anhang   EU REACH-VO. Anh. XVII
Tri-substituted organostannic compounds:		< 0,1 Gew. %	articles		EU REACH-VO. Anh. XVII
Trichlorobenzene	120-82-1	< 0,1 Gew. %	as substances or in mixtures		EU REACH-VO. Anh. XVII
Trichloroethylene	79-01-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
Tricosafuorododecanoic acid	307-55-1	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Trilead-bis(carbonate)-dihydroxide	1319-46-6	= 0 Gew. %	Inks		EU REACH-VO. Anh. XVII
Trilead bis(carbonate)dihydroxide	1319-46-6	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Trilead diarsenate	3687-31-8	= 0,1 Gew. %			EU REACH-VO. Anh. XIV (Kandidatenliste)
Trilead dioxide phosphonate	12141-20-7	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV   EU REACH-VO. Anh. XIV (Kandidatenliste)
<b>Trixylyl phosphate</b>	<b>25155-23-1</b>	<b>= 0,1 Gew. %</b>	<b>all applications</b>		<b>EU REACH-VO. Anh. XIV (Kandidatenliste)</b>
Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres . c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight		= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)
α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	= 0,1 Gew. %	all applications		EU REACH-VO. Anh. XIV (Kandidatenliste)