

**WINCOR
NIXDORF** Legal regulations which either prohibit or restrict the placing on the market and using of substances, mixtures and (in) articles in Germany and in the European Union in particular. (Status: January 2010)

EXPLANATIONS:

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Substance	CAS-No.	Limit Value ^{1) 2)}	Affected application ²⁾	Excep- tions ²⁾		Legal regulations ³⁾	Comments on Exceptions
Aliphatic chlorinated Hydrocarbons (CHCs)							
1.) Tetrachloromethane	56-23-5	0,1 wt.% (total)	general ban as a substance in mixtures and articles for substances come under 1.) to 4.) or substances and mixtures for substances come under 5.) to 8.) e. g. solvent and cleaning agent	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 16)
2.) 1,1,2,2-Tetrachloroethane	79-34-5						
3.) 1,1,1,2-Tetrachloroethane	630-20-6						
4.) Pentachloroethane	76-01-7						
5.) Trichloromethane (Chloroform)	67-66-3						
6.) 1,1,2-Trichloroethane	79-00-5						
7.) 1,1-Dichloroethylene	75-35-4						
8.) 1,1,1-Trichloroethane	71-55-6						
Aromatic amines							
2-Naphthylamine and its salts	91-59-8	0,1 wt.% (total)	general ban as a substance in mixtures e. g. as preservation against deterioration in oils und lubricants	no	GE	ChemVerbotsV ^{a)} (annex: part 7)	
4-Aminodiphenyl and its salts	92-67-1						
Benzidine and its salts	92-87-5						
4-Nitrobiphenyl	92-93-3						
Arsenic compounds							
	7440-38-2		e. g. in wood preservative wood treated with wood preservative	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 10)
Arsenic and Arsenic compounds	7440-38-2			yes	EU	Regulation (EC) No 1907/2006	see Regulation (EC) No 1907/2006 (annex XVII No 19)
				yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 2.4)
Asbestos							
Aktinolite	77536-66-4	0,1 wt.% (total)	general ban as a substance in mixtures and articles general ban as a substance, mixtures and articles	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 2)
Amosite	12172-73-5						
Anthophyllite	77536-67-5						
Chrysotile	12001-29-5						
Krokydolite	12001-28-4						
Tremolite	77536-68-6			yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 1.6)

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Benzene	71-43-2	0,1 wt.%	general ban as a substance in mixtures	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 6)
				yes	EU	Regulation (EC) No 1907/2006	see Regulation (EC) No 1907/2006 (annex XVII No 5)
				yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 1.12)
Lead and Salts of Lead							
		0,1 wt.%		yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 2.15 (3))
		0,1 wt.%	in electrical and electronic equipment	yes	GE	ElektroG ^{c)} (part 2)	see 2002/95/EC (annex)
	yes			EU	2002/95/EC		
	yes			CH	ChemRRV ^{f)} (annex 2.16 (6))		
Lead carbonate	598-63-0		general ban as a substance and in mixtures for use as paints	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 8)
Trilead-bis(carbonate)-dihydroxide	1319-46-6			yes	EU	Regulation (EC) No 1907/2006	see Regulation (EC) No 1907/2006 (annex XVII No 16 - 17)
Lead sulphate	7446-14-2 15739-80-7						
Lead compounds		0,01 wt.%	in paints and lacquers	yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 2.8)
Brominated Flame Retardants							
Octabromodiphenylether (OctaBDE, C ₁₂ H ₂ Br ₈ O)	32536-52-0	0,1 wt.%	general ban as a substance in mixtures and articles e. g. in plastics	no	GE	ChemVerbotsV ^{a)} (annex: part 25)	
				no	EU	Regulation (EC) No 1907/2006 (annex XVII No 44 - 45)	
Pentabromodiphenylether (PentaBDE, C ₁₂ H ₅ Br ₅ O)	32534-81-9	0,1 wt.%		no	CH	ChemRRV ^{f)} (annex 1.9)	
Polybrominated biphenyls (PBB)		0,1 wt.%	in electrical and electronic equipment	yes	GE	ElektroG ^{c)} (part 2)	see 2002/95/EC (annex)
				yes	EU	2002/95/EC	
Polybrominated diphenyl ethers (PBDE)		0,1 wt.%		yes	CH	ChemRRV ^{f)} (annex 1.9)	Exemption is null and void with effect from 01. Aug. 2008 by decision of EUGH from 01. April 2008.

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Cadmium and cadmium compounds								
Cadmium cadmium compounds	7440-43-9	0,01 wt.%	in pigments in plastics, in paints and lacquers, as stabiliser for plastics (e. g. PVC), as metallic surface coating, in articles	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 18)	
				yes	EU	Regulation (EC) No 1907/2006	see Regulation (EC) No 1907/2006 (annex XVII No 23)	
		yes		CH	ChemRRV ^{f)}	see ChemRRV (annex 2.9)		
		yes		DK	Ministerial Order No. 1199 of 23. Dec. 1992	see Ministerial Order No. 1199 of 23. Dec. 1992		
Cadmium	7440-43-9	0,01 wt.%	in electrical and electronic equipment	yes	GE	ElektroG ^{c)} (part 2)	see 2002/95/EC (annex)	
				yes	EU	2002/95/EC		
				yes	CH	ChemRRV ^{f)} (annex 2.16 (6))		
		0,25 wt.%		in zinc-plated article	yes	CH	ChemRRV ^{f)}	siehe ChemRRV (Anhang 2.16 (3))
		0,002 wt.%		in batteries and accumulators	yes	GE	BattG ^{b)}	see BattG (part 2, § 3)
					yes	EU	2006/66/EC	see 2006/66/EC (article 4)
0,0005 wt.%	in batteries and accumulators which are fixed in appliances ⁴⁾	yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 2.15 (2))			
0,015 wt.%	in zinc-carbon-batteries	yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 2.15 (2))			
Short Chain Chlorinated Paraffins (SCCP) Alkanes, C10–C13		1 wt.%	for use in metal processing and metal working	no	GE	ChemVerbotsV ^{a)} (annex: part 24)		
				no	EU	Regulation (EC) No 1907/2006 (annex XVII No 12)		
				no	CH	ChemRRV ^{f)} (annex 1.2)		
			in paints and lacquers, in sealing compounds, in plastics and vulcanised rubber, for use in metal processing and metal working					

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Hexavalent Chromium - (Chromium VI)		0,1 wt.%	in electrical and electronic equipment	yes	GE	ElektroG ^{c)} (part 2)	see 2002/95/EC (annex)
				yes	EU	2002/95/EC	
				yes	CH	ChemRRV ^{f)} (annex 2.16 (6))	
Cement, containing chromate		0,0002 wt.% dry weight of cement	Cement and cement-containing mixtures may not be used or placed on the market, if they contain, when hydrated, more than 2 mg/kg soluble chromium VI of the total dry weight of the cement.	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 28)
				yes	EU	Regulation (EC) No 1907/2006	see Regulation (EC) No 1907/2006 (annex XVII No 47)
				yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 2.16 (1))
Dimethylfumarat (DMF)	624-49-7	0,1 wt.%	in article or part of the article e. g. protection from moulds	no	EU	Decision (251/2009/EC)	
Fluorinated greenhouse gases							
hydrofluorocarbons (HFCs) (C1-C6), see annex 1, part 1 Ordiance (EC) Nr. 842/2006			in one-component-foams	yes	EU	Regulation (EC) No 842/2006	see Regulation (EC) No 842/2006
perfluorocarbons (PFCs) (C1-C6), see annex 1, part 1 Ordiance (EC) Nr. 842/2006							
Sulfur hexafluoride (SF6)							
Formaldehyde	50-00-0	0,1 ml/m3 (special testing procedure)	in wooden materials and furniture	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 3)
				no	AT	Formaldehydverordnung ^{g)} BGBl. Nr. 194/1990	
		0,13 ml/m3 (special testing procedure)		no	SE	KIFS 1998:8 ^{h)} (Kap. 9, §§ 20-27)	
		0,2 wt.%	detergents, cleaning agents and polishes	yes	GE	ChemVerbotsV ^{a)}	see ChemVerbotsV (annex: part 3)
				yes	AT	Formaldehydverordnung ^{g)} BGBl. Nr. 194/1990	see Formaldehydverordnung BGBl. Nr. 194/1990

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Mineral fibres, bioresistant							
synthetic mineral fibres, consisting of undirected vitreous (silicate-) fibres with more than 18 wt% of oxides on sodium, potassium, calcium, magnesium and barium		0,1 wt.% (total)	in technical insulating	yes	GE	ChemVerbotsV^{a)}	see ChemVerbotsV (annex: part 23)
Chlorofluorocarbons (CFCs) and halons = Ozone Depleting Substances (ODS)							
Chlorofluorocarbons (CFCs)		1 wt.% (total)	general ban as a substance	yes	GE	ChemOzonSchichtV^{d)}	ChemOzonSchichtV
see group I, annex 1 regulation (EC) No 2037/2000							
other fully halogenated chlorofluorocarbons							
see group II, annex 1 regulation (EC) No 2037/2000							
Halons		1 wt.% (total)	in mixtures and in articles, e. g.: in aerosols, in refrigerants, in foam plastics, as cleaning agents and solvents, as fire-fighting agents	yes	EU	Regulation (EC) No 2037/2000	see Regulation (EC) No 2037/2000 (Article 4 (6))
see group III, annex 1 regulation (EC) No 2037/2000							
Carbon tetrachloride	56-23-5						
1,1,1-Trichlorethane	71-55-6						
methyl bromide	74-83-9						
Hydrobromofluorocarbons							
see group VII, annex 1 regulation (EC) No 2037/2000	74-97-5						
Hydrochlorofluorocarbons		in foam plastics, in articles containing foam plastics	yes	CH	ChemRRV^{f)}	see ChemRRV (annex 2.9)	
see group VIII, annex 1 regulation (EC) No 2037/2000							
bromochloromethane							
Pentachlorophenol (PCP) and PCP compounds							
Pentachlorophenol	87-86-5	0,01 wt.% (total) in mixtures, 5 mg/kg (total) in articles	general ban as a substance	no	GE	ChemVerbotsV^{a)} (annex: part 15)	
PCP sodium salt, other PCP salts and compounds	131-52-2						
		0,1 wt.% in Summe	general ban as a substance in mixtures	no	EU	Regulation (EC) No 1907/2006 (annex XVII No. 22)	
Pentachlorophenol and its salts and pentachlorophenoxy-compounds			general ban as a substance	no	CH	ChemRRV^{f)} (annex 1)	
Tetrachlorphenol (TeCP) and its salts and Tetrachlorphenoxy-compounds			in mixtures				

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Perfluorooctane sulfonates (PFOS)							
Perfluorooctane sulfonates C ₈ F ₁₇ SO ₂ X			general ban as a substance				
[acid (X = OH), metal salt (X = O-M+), halide, amide, and other derivatives including polymers]		0,005 wt.% 0,1 wt.% 1 µg/m ²	in mixtures in articles or in parts thereof in coated materials	yes	GE	ChemVerbotsV^{a)}	see ChemVerbotsV (annex: part 32)
Polychlorinated biphenyls, Polychlorinated terphenyls							
Polychlorinated biphenyls (PCB)	1336-36-3		general ban as a substance	yes	GE	ChemVerbotsV^{a)} (annex: part 13)	see ChemVerbotsV (annex: part 13)
Polychlorinated terphenyls (PCT)	61788-33-8						
Monomethyl-tetrachloro-diphenyl methane (Ugilec 141)	76253-60-6	50 mg/kg (total)	in mixtures and articles e. g. in capacitors	no	EU	Regulation (EC) No 1907/2006 (annex XVII No 1, 24 -26)	
Monomethyl-dichloro-diphenyl methane (Ugilec 121 / Ugilec 21)							
Monomethyl-dibromo-diphenyl methane (DBBT)	99688-47-8						
Halogenated aromatic substances as							
Polychlorinated biphenyls (PCB)	1336-36-3		in capacitors, in transformers	no	CH	ChemRRV f)	see ChemRRV (annex 2.14)
Halogenated diarylalkanes or halogenated benzols							
Impurity with mono-halogenated substances		0,05 wt.%					
Impurity with poly-halogenated substances		0,005 wt.%					

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Mercury and Mercury compounds								
Mercury compounds			in antifouling paints, in the preservation of wood	no	GE	ChemVerbotsV ^{a)} (annex: part 9)		
				no	EU	Regulation (EC) No 1907/2006 (annex XVII No. 19)		
Mercury and Mercury compounds			in mixtures, in articles	yes	CH	ChemRRV ^{f)}	see ChemRRV (annex 1.7)	
		0,0005 wt.%	in batteries and accumulators	no	GE	BattG ^{b)}		
			in batteries and accumulators which are fixed in appliances ⁴⁾	no	EU	2006/66/EC		
			in zinc-carbon-batteries	yes	CH	ChemRRV ^{f)}		see ChemRRV (annex 2.15)
			in alkali-manganese-batteries					
		2 wt.%	in button cells and batteries composed of button cells	no	GE	BattG ^{b)}		
			in button cells	no	EU	2006/66/EC		
		0,1 wt.%	in electrical and electronic equipment	in button cells and batteries composed of button cells	yes		ChemRRV ^{f)}	see ChemRRV (annex 2.15)
				yes	GE	ElektroG ^{c)} (part 2)	see 2002/95/EC (annex)	
				yes	EU	2002/95/EC		
		yes	CH	ChemRRV (Anhang 1.7)				

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Heavy metals							
Lead,	7439-92-1	0,01 mg/kg (total)	contained in packaging and/or packaging components	yes	GE	VerpackungsV^{e)} (part III)	see VerpackungsV (part III)
Cadmium,	7440-43-9			yes	EU	94/62/EC	see 94/62/EC
Mercury,	7439-97-6			yes	CH	ChemRRV^{f)}	see ChemRRV (annex 2.16 (4))
Chromium VI							
Tar oils							
creosote	8001-58-9		in mixtures and articles in wood preservatives In wood and wooden materials	yes	GE	ChemVerbotsV^{a)}	see ChemVerbotsV (annex: part 17)
creosote oil	61789-28-4						
distillates (coal tar), naphthalene oils	84650-04-4						
creosote oil, acenaphthene fraction	90640-84-9						
high-boiling distillates (coal tar)	65996-91-0						
anthracene oil	90640-80-5						
tar acids, coal, crude	65996-85-2						
creosote, wood	8021-39-4						
coal tar alkine, extract residues	122384-78-5			yes	CH	ChemRRV^{f)}	see ChemRRV (annex 2.4)
Toluene	108-88-3	0,1 wt. %	general ban as a substance in mixtures in adhesives, in spray paints	no	GE	ChemVerbotsV^{a)} (annex: part 30)	
				no	EU	Regulation (EC) No 1907/2006 (annex XVII No. 4b)	
				no	CH	ChemRRV (annex 1.12)	

**WINCOR
NIXDORF** Legal regulations which either prohibit or restrict the placing on the market and using of substances, mixtures and (in) articles in Germany and in the European Union in particular. (Status: January 2010)

EXPLANATIONS:

As regards questions of detail, e.g. affected application, concerning statutory exemptions or transitional arrangements, it is recommended to refer to the complete text of the law.

¹⁾ Limit Values applies to mixtures and/or articles. If a concentration amount not mentioned the legislature has decreed a regulation without mentioning a limit. In these cases the concentration limits of consideration according to Directive 67/548/EEC amended by Directive 2001/59/EC, annex VI Nr. 1.7.2.1 and Directive 1999/45/EC Article 3 para. 3 can be consulted.

²⁾ Data are valid for the whole group of substances, if not indicated otherwise. Exceptions for research and development as well as for disposal are not considered.

³⁾ Abbr.: ^{a)} ChemVerbotsV = Chemicals prohibition ordinance; ^{b)} BattG = Law of placing on the market, take-back and disposal of batteries and accumulators; ^{c)} ElektroG = Electrical and Electronic Equipment Act; ^{d)} ChemOzonSchichtV = chemicals damaging ozone layer ordinance; ^{e)} VerpackungsV = packaging ordinance; ^{f)} ChemRRV = Swiss ordinance on reduction of chemical risks; ^{g)} Formaldehydverordnung = Austrian Formaldehyde Ordinance; ^{h)} KIFS = Swedish National Chemicals Inspectorate's Regulations (Kemikalieinspektionens föreskrifter); ⁱ⁾ CAA = Clean Air Act

⁴⁾ Fixed batteries are those which cannot be removed without effort from the appliances. They are either soldered, welded or in some other manner permanently connected to the contacts.

Substance	CAS-No.	Limit Value ^{1) 2)}	Affected application ²⁾	Excep- tions ²⁾		Legal regulations ³⁾	Comments on Exceptions
Organostannic compounds							
Di- μ -oxo-di-n-butylstanniohydroxyborane dibutyltin hydrogen borate (DBB)	75113-37-0	0,1 wt.%	in substances and mixtures in articles	no	GE	ChemVerbotsV ^{a)} (annex: part 12)	
				no	EU	Regulation (EC) No 1907/2006 (annex XVII No. 21)	
Tri-substituted organostannic compounds		0,1 wt.%	<u>after 1 July 2010:</u> <u>in articles</u>	no	EU	Decision (2009/425/EC)	
Dibutyltin (DBT) compounds		0,1 wt.%	<u>after 1 January 2012:</u> in mixtures in articles or part thereof	yes	EU	Decision (2009/425/EC)	siehe Decision (2009/425/EC)
			<u>after 1 January 2015:</u> in one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, in paints and coatings containing DBT compounds as catalysts when applied on articles, in soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, in fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications				
Diocetyl tin (DOT) compounds		0,1 wt.%	<u>after 1 January 2012:</u> amongst others in two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	no	EU	Decision (2009/425/EC)	