

Zollner – List of banned substances

The increasing legal and/or customer-specific requirements concerning environmental compatibility of the products call for an intensive integration of our suppliers.

The „Zollner – List of banned substances“ includes substances which are subject to legal regulations and/or customer-specific requirements and thus are prohibited at Zollner.

This list of banned substances gives a simplified survey over the prohibitions and restrictions, within the European Union and in other countries, concerning the sale of hazardous substances. It includes a selection of substances being relevant for Zollner. For some substances these legal prohibitions are limited to certain applications and/or special exceptions are allowed.

The „list of banned substances“ is an integral part of our terms of delivery.

ZOLLNER Banned Substances List						
Status: November 2004						
No.	Substance	CAS No.	Affected application	Limit value (wt. %) ¹⁾	Ex-ceptions	Legal regulations ²⁾
1	Aliphatic CHCs		All application	0.1 (total)	yes	DE ChemVerbotsV EU 76/769/EEC
2	Arsenic or its compounds	7440-38-2	0.3 % at following applications: 1. for cleaning in drivable containers and other close spaces 2. in colourants and coating materials 3. in caustics and cleaning agents, except phosphoric acid caustics 4. at the chemical (reductive) metal separation for surface treatment 5. in metal glues	0.3 (total)	yes	DE ChemVerbotsV
3	1,1,1-Trichloroethane Tetrachloromethane	71-55-6 56-23-5	All application	n.g.		CH StoV Anh. 3.4, 4.14
4	Asbestos	1332-21-4	All application	0.1 (total)	yes	DE ChemVerbotsV EU 76/769/EEC
				n.g.	yes	CH StoV Anh. 3.3
5	Man-made vitreous (silicate) fibres, with random orientation with oxide of sodium, potassium, calcium, magnesium, and barium content > 18 % by mass		Articles for heat and noise reduction in building construction Technical insulation	0.1 (total)	yes	DE ChemVerbotsV
6	Lead and Lead compounds	7439-92-1	Fixed batteries	0.4	yes	DE BattV EU 91/157/EEC
				0.1	yes	CH StoV Anh. 4.10
			Electrical and electronic equipment (from 2006-07-01)	0.1 (expected)	yes	EU 2002/95/EC (RoHS)
7	Boron and boron compounds	7440-42-8	3 % in lubricants (calculated as element)	3 % (total)	yes	
8	Cadmium and cadmium compounds	7440-43-9	Pigments in plastics	0.01	yes	DE ChemVerbotsV EU 76/769/EEC CH StoV Anh. 4.11, 4.12
			Stabilized vinyl chloride polymers and copolymers (e. g. PVC)	0.01	yes	
			Metallic surface coating	n.g.	yes	
			Fixed batteries	0.025	yes	DE BattV EU 91/157/EEC
			Zinc-carbon batteries	0.015		CH StoV Anh. 4.10
Zinc layers	0.025	yes	CH StoV Anh. 4.12			

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			Electrical and electronic equipment (from 2006-07-01)	0.1 (expected)	yes	EU 2002/95/EC (RoHS)
9	Polybrominated biphenyls (PBBs) Polybrominated diphenyl ethers (PBDEs)		Electrical and electronic equipment (from 2006-07-01)	0.1 (expected)		EU 2002/95/EC (RoHS)
10	Octabromodiphenylether (OBDE) Pentabromodiphenylether (PeBDE)	32536-52-0 32534-81-9	All applications from 15-Aug-04	0.1		DE ChemVerbotsV EU 76/769/EEC
11	Polychlorinated dioxins and furans Polybrominated dioxins and furans		All applications	(Group limit values) 0.000 000 5	yes yes	DE ChemVerbotsV
12	CFCs and halons		Aerosols Coolants Foam plastics Cleaning agents and solvents	1.0 1.0 n.g. 1.0	yes yes yes yes	DE FCKW-Halon-VerbotsV EU 2037/2000 CH StoV Anh. 3.4, 4.9, 4.14-15 US CAA (42 USC 7671 et seq.)
13	HCFCs		Use in cooling and air-conditioning devices	n.g.	yes	EU 2037/2000
14	FCs HFCs		Cooling and air conditioning equipment (HFCs from 2008-01-01)	n.g.	yes	AT BGBl. Nr. 447/2002
15	HCFCs (C ₁ to C ₃) HBrFCs (C ₁ to C ₃) Methyl bromide	74-83-9	All applications	n.g.	yes	CH StoV Anh. 3.4, 4.9, 4.14-15
16	Formaldehyde	50-00-0	Wooden materials and furniture	0.1 ml / m ³ (special testing procedure)	yes	DE ChemVerbotsV AT BGBl. Nr. 194/1990 SE KIFS 1998:8 (9, 20-27 §§)
17	Halogenated aromatic compounds		Capacitors and transformers	0.05/0.005 (mono-/polyhalogenated)		CH StoV Anh. 4.8
18	Pentachlorophenol (PCP) Pentachlorophenol, sodium salt Other PCP salts and compounds	87-86-5 131-52-2	All applications	0.000 5 (total)	yes	DE ChemVerbotsV EU 76/769/EEC
19	Polychlorinated biphenyls (PCBs) Polychlorinated terphenyls (PCTs) Monomethyltetrachlorodiphenylmethane (Ugilec 141) Monomethyldichlorodiphenylmethane (Ugilec 121 or 21) Monomethyldibromodiphenylmethane (DBBT)	1336-36-3 61788-33-8 76253-60-6 99688-47-8	All applications	0.005 (total) 0	yes	DE ChemVerbotsV EU 76/769/EEC CH StoV Anh. 3.1
20	Polychlorinated biphenyls (PCBs)	1336-36-3	Not totally enclosed	0.05	yes	US TSCA (15 USC 2605) + 40 CFR 761
21	Halogenated biphenyls, terphenyls, naphthalenes		All applications	n.g.		CH StoV Anh. 3.1
22	Mercury and mercury compounds	7439-97-6	Batteries	0.000 5	yes	DE BattV EU 98/101/EC
			Button cells and batteries composed of button cells	2		DE BattV EU 98/101/EC

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			Alkali-manganese batteries	0.025	yes	CH StoV Anh. 4.10
			Zinc-carbon batteries	0.01		CH StoV Anh. 4.10
			All applications	0	yes	CH StoV Anh. 3.2 NL Decree 9 Sept. 1998 SE SFS 1998:944
			Electrical and electronic equipment (from 2006-07-01)	0.1 (expected)	yes	EU 2002/95/EC (RoHS)
23	Mercury and cadmin	7439-97-6 7440-43-9	Fixed batteries	0.001 (total)	yes	CH StoV Anh. 4.10
24	Hexavalent chromium (Cr ^{VI})		Electrical and electronic equipment (from 2006-07-01)	0.1 (expected)	yes	EU 2002/95/EC (RoHS)
25	Heavy metals (lead, cadmium, hexavalent, chromium, mercury)		Packaging and packaging components	0.01 (total)		DE VerpackV EU 94/62/EC
26	Sulfur hexafluoride (SF ₆)	2551-62-4	Insulating and quenching gas in electrotechnical systems and appliances up to 1 kV (over 1 kV obligation to report)	0	yes	AT BGBl. Nr. 447/2002 CH StoV Anh. 3,5
27	Selenium and compounds	7782-49-2	Diodes (production process)	0.1 % (total)	yes	
28	Tar oils	8001-58-9	Wood and wooden materials	0	yes	DE ChemVerbotsV EU 76/769/EEC
29	Carcinogenic, mutagenic and reproduction toxic chemicals (categories 1 and 2)		Substances and preparations for private customers	Depends on the chemical	yes	DE ChemVerbotsV EU 76/769/EEC
The regulations concerning the following residual monomers only apply to plastic parts which are intended to be in contact with foodstuffs. They do not apply to the majority of electrotechnical products!						
30	Acrylonitrile as residual monomer	107-13-1	ABS, SAN and other copolymers in contact with foodstuffs	0.000 002 (SML)		DE BedarfsgegV EU 90/128/EEC
31	Butadiene as residual monomer	106-99-0	ABS in contact with foodstuffs	0.000 002 (SML)		DE BedarfsgegV EU 90/128/EEC
32	Vinyl chloride as residual monomer	75-01-04	PVC und copolymers in contact with foodstuffs	0.000 1 0.000 001 (SML)		DE BedarfsgegV EU 90/128/EEC

Notes to the Zollner Banned Substances List

- 1) „n. g.“ means, that no limit value is given in the legislation. In these cases the legly given concentration limits for taking substances into account are to be observed.
SML = Specific Migration Limit (Maximal permissible concentration of the diffused substance in foodstuff)
- 2) Country codes according to ISO 3166
BattV = German battery ordinance (Batterieverordnung)
BedarfsgegV = German commodity goods ordinance (Bedarfsgegenständeverordnung)
ChemVerbotsV = German chemicals prohibiton ordinance (Chemikalienverbotsverordnung)
CAA = Clean Air Act
FCKW-Halon-VerbotsV = German CFC and halons prohibition ordinance (FCKW-Halon Verbotsverordnung)
KIFS = Swedish National Chemicals Inspectorate's Regulations (Kemikalienspektionensföreskriter)
RoHS = Directive of the European Parliament and the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (Directive 2002/95/EC)
SFS = Swedish Code of Statutes (Svensk författningssamling)
StoV = Swiss ordinance on environmentally hazardous substances (Verordnung über umweltgefährdende Stoffe)
TSCA = Toxic Substances Control Act
VerpackV = German packaging ordinance (Verpackungsverordnung)