

List of substances subject to prohibited / undesirable / declaration

Appendix 1 to the Guidelines to Design and Purchasing Prohibition of Harmful Substances - ebmpapstMulfingen: ebmpapstSt.Georgen: WN 3-12.2 ebmpapstLandshut: 60118.00040 (Ver. 5.0-31.07.2008)



1	2	3	4	5	6	7	8	9	10	
Consecutive No.	N - new	Substance	EU-INDEX-No.:	CAS-No.	Source (law, decree, guideline).	Hazard/risk	example of application/occurrence	Remarks and comments (of 0.1% deviating consideration limit)		
	V = prohibited (verboden)									
	U = undesirable (unerwünscht)									
	D = subject to declaration (deklarationspflichtig)									
	V = prohibited									
	RoHS									
1	V N	Lead and compounds (red lead oxide, lead sulphate, lead hydrogen carbonate, lead carbonate, lead phthalates, lead acetates, lead phosphates, lead stercerates, etc) lead chromate: refer to chromium (VI) salts		7439-92-1 (7446-14-2 131-96-6 698-63-0 301-04-2 7446-27-7, 1072-35-1)	TRGS 905, GefStoffV, ChemVerbotsV, BatterieV, 2002/95/EG (RoHS), 67/458/EEC 76/769/EEC (89/667/EEC, 97/110/EC, 97/56/EC) 91/157/EEC (98/101/EC), CEPA Toxic	K3, R ₁ , R ₂ , R ₃	cable coating, heat transfer medium for accumulators, hybrid integrated circuits, stabilizers in plastics, vessels and pipes for aggressive liquids, pigment production, lead alloys, anti-corrosion agents (fuel additives), soldering agent	from 100 ppm Pb-stabilisers and pigments are subject to declaration. Prohibited: Anhydrite neutral lead carbonate, lead hydrogen carbonate and lead sulphate as dye pigment < 0.4 % in batteries according to RoHS: Lead as alloying additive in aluminium (up to 0.4 mass%) in steel (up to 0.38 mass%), in copper (up to 4%), in tin (up to 0.1 mass%) the concentration limits refer to the term "homogeneous material" according to 2002/95/EC in lubricants up to 10 ppm	V	
2	V N	Cadmium and its compounds (e.g.cadmium oxide, cadmium sulfide, cadmium chloride, cadmium sulfate and others)		7440-43-9 (1306-19-0, 1306-23-6, 10108-64-2, 10124-36-4)	EU prohibition (76/769EWG) EU-D67/458/EEC TRGS 905, 67/548/EEC 2002/95/EG (RoHS) 76/769/EEC (97/10/EC, 97/56/EC, 2003/53/EC) 2000/53/EC (2002/52/5/EC), CEPA Toxic	T, (K 2), M2, R ₁ 2, R ₂ 2	surface protection of metals, stabilizers in polymers, pigments in paints and plastics, batteries, accumulators, contacts, hard and soft solders, alloys and softener in plastics	Every use of Cadmium has to be declared <0.002% in batteries and accumulators 0.075% for colorants in plastics, in paints and lacquer as stabilizer in plastics and as surface coating 0.025% in zinc coatings. the concentration limits refer to the term "homogeneous material" according to 2002/95/EC exception regulated contaminants containing Cd tolerated up to 75 ppm alloys and warning marks excepted.	V	
3	V N	Chromium (hexavalent) and chromium (VI) salts (e.g. chrom (VI) oxide, barium chromate, lead chromate, calcium chromate, chromium acetate, potassium chromate, potassium dichromate, sodium chromate, sodium dichromate, strontium chromate, tin chromate, zinc chromate)	024-010-00-x	1333-82-0, (10294-40-3, 7758-97-6, 1066-30-4, 7788-50-9, 7789-00-6, 7775-11-3, 10588-01-9, 13765-19-0, 1066-30-4, 13530-65-9) 18540-29-9	TRGS 905, 67/548/EEC 2002/95/EG (RoHS) 76/769/EEC (97/10/EC, 97/56/EC, 2003/53/EC) 2000/53/EC (2002/52/5/EC), CEPA Toxic	K2, S	pigmente containing chromium (lead chromate, chromium yellow, barium chromate, strontium chromate, zinc chromate, baryte yellow), chromated surface coatings, e.g. yellow chromated, corrosion inhibitors, residues from dyeing or tanning, timber preservative, engineering tubes	Threshold 3 ppm in electric and electronic equipment EPA 3060A is not an approved testing method The concentration limits refer to the term "homogeneous material" according to 2002/95/EC	V	
4	V N	Mercury and mercury compounds (e.g. mercury chloride, mercury dichloride, mercury sulfate, mercury nitrate, mercury oxide, mercury sulfide)	080-001-00-0	7439-97-6 (33631-63-9, 7487-94-7, 7783-35-9, 10045-94-0, 21908-53-2, 1344-48-5)	ChemVerbotsV GefStoffV mit Anhang IV Nr. 7, BatterieV, 2006/66/EU 76/769/EEC (89/677/EEC) 2002/95/EG (RoHS), 67/458/EEC 91/157/EEC (98/101/EC), 2000/53/EC (2002/52/5/EC), CEPA Toxic	T, (S)	Hg-vapour lamp, batteries, relays, thermometer (including CRT and TFT), anticorrosion layers, switches	Oppm, for processes is the limitation of the Chem.VerbotsV applicable, in batteries and accumulators > 5ppm and in all other >25mg/cell 0,1% for electric and electronic parts. The concentration limits refer to the term "homogeneous material" according to 2002/95/EC	V	
5	V N	Polybrominated biphenyls (PBB)/Polybrominated diphenyls (PBD), Polybrominated biphenyloxide (PBBO) e.g.: 4-bromobiphenyl 3,3'-dibromobiphenyl 2-Bromobiphenyl 3-Bromobiphenyl Decabromobiphenyl Hexabromo-1,1'-biphenyl Tetrabromobiphenyl 2,2',4,4',5,5'-Hexabromobiphenyl Octabromobiphenyl Heptabromobiphenyl Pentabromobiphenyl Tribromobiphenyl Nonabromobiphenyl		59536-65-1 92-66-0 92-86-4 2052-07-5 2113-57-7 13654-09-6 36355-01-8 40088-45-7 59080-40-9 61288-13-9 59080-40-9 67774-32-7 35194-78-6 27753-52-2 56307-79-0 -	2002/95/EC (RoHS) LUS TSCA BedarfsgegenständeVO, 76/769/EEC (83/264/EEC), 2002/95/EG (RoHS), CEPA SOR/96-237, CEPA Toxic			flame retardant in polymers and textiles	possible appearance of dioxine and furans during the recycling process, combustion, and reuse 0.001%. In electronic equipment is the threshold 0.1 weight % The concentration limits refer to the term "homogeneous material" according to 2002/95/EC	V
6	V N	Polybrominated diphenylether (PBDE)/ Polybrominated Biphenylether (PBBE) e.g.: 4-Bromophenylphenylether (4-Bromodiphenylether) Octabromodiphenylether Hexabromodiphenylether Tetrabromodiphenylether 2,3,4'-Tribromodiphenylether Nonabromodiphenylether Heptabromodiphenylether Decabromodiphenylether Dibromodiphenylether Pentabromodiphenylether Monobromodiphenylether		101-55-3 32536-52-0 36483-60-0 40088-47-9 49690-94-0 63936-56-1 68928-80-3 1163-19-5 2050-47-7 32534-81-9	2002/95/EG (RoHS) 2003/11/EC 76/769/EEC		flame retardant in polymers and textiles	possible appearance of dioxine and furans during the recycling process, combustion, and reuse 0.001%. In electronic equipment is the threshold 0.1 weight % The concentration limits refer to the term "homogeneous material" according to 2002/95/EC	V	
	V								V	

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7	V	1,1,1-Trichloro-2,2-bis (4-chlorophenyl)-ethane; DDT	200-024-3	50-29-3	EU prohibition (76/769/EEC) TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 1, Section 1,	K3, T, N	Insecticidem, plant protective agent		V
8	V	1,1,1-Trichloroethane	200-756-3	71-55-6	TRGS 905, ChemVerbotsV GefStoffV with App IV No. 16, CH StoVAnh. 3.4 EU prohibition (76/769/EEC)	Xn, N	Solvent		V
9	V N	1,1- Dichloroethane		75-34-3	customer requirement				V
10	V N	1,2-Dibromo-3-Chloropropane; DBCP	202-479-3	96-12-8	Directive 76/796 EEC, Nr.30;TRGS 905 GefStoffV	T, K2	Insecticide, medium for soil disinfection, soil gassing	environmental pollutant	V
11	V N	1,2-Dibromoethane, Ethylene Dibromide, EDP	203-444-5	106-93-4	GefStoffV, TRGS910-18	T, K2, Xn	Insecticide, additive in fuel	environmental pollutant, biocide	V
12	V N	1,2-Dichlorethan (ethylen dichloride)		107-06-2	customer requirement				V
13	V N	1,4-Dioxan		123-91-1	customer requirement				V
14	V N	10,10-Dybisphenoxarsin		58-36-6	customer requirement				V
15	V N	2-Naphtylamine and its salts 1-Naphtylamine		91-59-8 134-32-7	EU prohibition (76/769/EEC) TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 18	K1	Textile and leather dyes, antioxidants in polymers	for substances and preparations there is a limit or prohibition in acc. with ChemVerbotsV.	V
16	V	4-Aminobiphenyl and its salts	612-072-00-6	92-67-1	67/548/EEC, EC prohibition (76/769/EEC), TRGS 905, ChemVerbotsV, GefStoffV with App. IV No. 2	T, K1	contaminants in textile and leather dyes, anti-oxidants, in lubricants, rubber, plastics	Substitutes TRGS 605; for substances and preparations limited and/or prohibited acc. to ChemVerbotsV-- 0.01%	V
17	V N	4-Nitrophenyl and salts	202-204-7	92-93-3	TRGS 905, ChemVerbotsV GefStoffV with App IV No. 7 76/769/EEC (89/677/EEC, 97/110/EEC, 97/56/EEC)	K2, T, N	in textiles and leather; stabilizer for rubber		V
18	V N	Acrylonitrile, e.g. as residual polymer	608-001-00-3	107-13-1	TRGS 905, GefStoffV 67/548/EEC	K2, T, F, N, S	production of plastics, artificial resins and rubbers e.g. ABS (residual monomer)		V
19	V	Aldrin	206-215-8	309-00-2	EU prohibition (2455/92/EEC)	T, K3, N	insecticide	environmental pollutant	V
20	V	Aliphatic chlorohydrocarbon, see chlorohydrocarbon			ChemVerbotsV_76/769/EEC		solvents, lubricants, detergents, glues		V
21	V N	Amines, secondary			customer requirements				V
22	V N	Aromates, especially these portion of aromates of mineral oil products, which can be solved in dimethylsulfoxide (DMSO)			customer requirements		3% in lubricant oil, identification after IP 346		V
23	V N	Arsenic and its compounds (e.g. Arsenic pentoxide, Arsenic trioxide)	033-001-00-x	7440-38-2 1303-28-2 1327-53-3	67/548/EEC 76/769/EEC (2003/2/EC, 97/110/EEC), CEPA Toxic TRGS 905, ChemVerbotsV GefStoffV with App IV No. 3, IIRS	T, K1	dyes and melt coatings, wood protection agents, leather and textile finishing, water treatment agent, flat glass, metal adhesives, pyrotechnical objects, metal finishing, wood impregnating agent, low-melting alloy, pigment, Pb + Cu alloys, flame retardants	Maximum concentration limit 0.01% Exceptions: As alloy element in metals declaration limit is 500 ppm. For substances and preparations there is a limit and/or prohibition in acc. with ChemVerbotsV (EC-Prohibition /6/769/EEC) With GaAs, individual cases of applications are to be considered	V
24	V N	Asbestos and its compounds/minerals: e.g. Actinolite, Amosite(Grunerite), Anthophyllite, Chrysotile, Crocidolite, Tremolite	650-013-00-6	1332-21-4 132207-33-1 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 13768-00-8, 17069-79-9, 12001-29-5, 12001-28-4, 14567-73-8	EU prohibition (76/769/EEC, 83/478/EEC, 85/610/EEC,1999/77/EC, CEPA Toxic) TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 2	K1, T	friction linings, sealings, insulation, filling material	For substances and preparations and products there is a limit and/or prohibition in acc. with ChemVerbotsV, threshold 0ppm	V
25	V N	Azo dyes and their compounds according to the TRGS 614 with carcinogenic amine components	-		76/769/EEC (2002/61/ECC, 2003/03/EEC) Necessary article decree TRGS 614,905	K 1 - 2	In dyes and LCDs	Threshold 10 ppm in grease, otherwise 30 ppm, prohibited in textiles	V
26	V	Benzidine and its salts	612-042-00-2	(92-87-5)	EU prohibition (76/769/EEC), 67/548/EEC TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 2	T, K1, N	Congo dyes (benzidine dyes; especially azo dyes), textiles and leather dyes, anti-oxidants for rubber and elastomers	Substitutes TRGA 603, declaration limit: 0,01% for materials and preparations there is a limit and/or prohibition acc. to ChemVerbotsV.	V
27	V	Benzo(a)anthrazene, Benzo(b)fluoranthene, Benzo(j)fluoranthene, Benzo(k)fluoranthene	601-033-00-9	56-55-3 205-99-2 205-82-3 207-08-9	GefStoffV §§ 4,4a,4b	K2	Mineral oils, bitumen, pitch, tar, soot, tobacco smoke, flyash, exhaust gases, domestic fuels, combustion plants, aluminum/iron steel production, curing meat or fish		V
28	V	Benzo(a)pyrene and other PAHs (PAK)	(601-032-00-3)	(50-32-8)	EU prohibition (76/769/EEC), 67/548/EEC TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 13 DKE Newsletter 511-2008-0038, ZEK 01-08	T, K2, M2, R ₂ , R ₂ , N	Coal tar, mineral oils, bitumen, pitch, tar, soot, flyash, incomplete combustion of organic substances e.g. in car exhausts and industrial waste gas	deviations in declaration limits : in plasticizer oil for tyres: 1 ppm in wood protective agent; 50 ppm in lubricants: 10 ppm (12PAHs) and/or 1 ppm for benzo(a) pyrene; for substances and preparations there is a limit and/or prohibition in acc. with ChemVerbotsV (76/769/EEC)	V
29	V	Benzene (Benzol)	601-020-00-8	71-43-2	EU prohibition 76/769/EEC, 67/548/EEC TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 4	T, K1, M2, F	petrol/gasoline, solvents for rubber paint, raw material of many different chemicals	max. treshold 0.1 mass%; deviations in declaration limit: 0.01%; for substances and preparations there is a limit and/or prohibition in acc. with ChemVerbotsV.	V
30	V	Berylliumoxide		1304-56-9	EC-Regulation 1907/2006, customer requirement		glass, semiconductors	attentional use is prohibited	V
31	V	Bis (tri-n-butyltin) oxide		59-35-9	customer requirement				V
32	V N	Boron in soluble compounds			customer requirement				V

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33	V	Brominized diphenylether (Bromobiphenylether up to Decabromobiphenylether)			2002/95/EG (RoHS)		Flame retardant in plastic parts, conductor plates and textiles. Possible formation of dioxines and furanes in recycling processes, in fires and recovery		V
34	V N	Bromomethane, methyl bromide, bromoethane, ethyl bromide		74-83-9, 74-96-4, 74-83-9	EC-Reg: 899/2007; customer requirement	T, N, Xn	ozon depleting substances		V
35	V N	Bromoform		75-25-2	Customer requirement				V
36	V N	Butadien (1,3 - Butadien) e.g. as residual polymer	(601-013-00-x)	(106-99-0)	67/548/EEC, TRGS 905, GefStoffV	T, K1, M2, F+	Production of synthetic rubber for tyres, as homo-polymerisate (BR) , as co-polymerisate with styrene (SBR) or acryl nitrile (NR), production of sulpholan, chloroprene, hexadamine, production of plasticizer tetrahydro-phthalic anhydride, residual monomer in ABS		V
37	V N	Carbon disulfide and carbon disulfide depleting substances	202-479-3	75-15-0	customer requirement	K2, T			V
38	V N	Carcinogenic substances, substances causing hereditary or reproductive damage, CMR- substances			EU prohibition (76/769/EEC), 94/60EG, 97/10EG, TRGS 905, GefStoffV, ChemVerbotsV, Section 20, REACH 1907/2006/EC		Materials and mixtures for the private user	it depends on the substance	V
39	V N	Chlorobromocarbon			customer requirements				V
40	V	Chlorinated and brominated dioxines and furanes (i.e. PCDD, PCDF, PBDD, PBDF) Dibenzodioxines			ChemVerbotsV	T	contamination in products	threshold 0ppm possible creation of dioxines and furaness when recycling, in fires and recovery 1 ppb, 5 ppb, 100 ppb depending on halogenation degree	V
41	V N	Chlorinated hydrocarbons: also Hydrochlorocarbons (HCC) and their isomers (see also chlorinated hydrocarbon) Tetrachloromethane (tetrachloroethane) 1.1,1,2 tetrachloroethane 1.1,1,2 tetrachloroethane pentachloroethane trichloromethane (chloroform) 1.1,2 trichloroethane (Vinyltrichlorid) 1.1 dichloroethylene 1.1,1 trichloroethane Pentachlorethan 1.1 Dichlorethylen, Dichlormethane (methylenchloride) see a. chloroparaffins unbranched		56-23-5 67-66-3 71-55-6 79-34-5 630-20-6 79-00-5 76-01-7 75-35-4 75-09-2	EU prohibition TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 11 67/548/EEC 94/60	K3, (M3)	cleaners, solvents, impregnating agents, fungicides, insecticides	As solvent for surface cleaning only Trichlorethene, Perchloroethene and Dichlormethane are permitted (see German regulation 2. BImSchV) For substances and preparations and products there is a limit and/or prohibition in acc. with ChemVerbotsV	V
42	V N	Chlorinated Paraffines short chained and unbranched (SCCP, Short Chained Chlorinated paraffines C10-C13)		85535-84-8	UK DEFRA 76/769/EEC 2002/45/EC, CEPA PSL 1 EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K3, (M3), N, Xn	flame retardant, grease, softener in PVC	0 ppm; REACH- SVHC: PBT: 0.1 %	SVHC
43	V N	Chlorinated Paraffines unbranched (MCCP, Medium Chained Chlorinated paraffines) (C10-H22nCln to C30-H62nCln, n=1-28)		85535-85-9 63449-39-8	UK DEFRA 76/769/EEC 2002/45/EC, CEPA PSL 1	K3, (M3)	flame retardant, grease, softener in PVC	0 ppm	V
44	V N	Chlorinated solution			customer requirements				V
45	V N	Cresosote, Coal Tar		8001-58-9	EU prohibition (76/769/EEC), EU prohibition TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 17		wood, mainly as protective coating		V
46	V	Cyanide			TRGS 905	T	Galvanizing residues		V
47	V N	Cyclopentane		287-92-3	customer requirement				V
48	V	Cyhexatin (ISO); Rr(cyclohexyl)tinhydroxide	13121-70-5	236-049-1	98/98/EG	Xn	Insecticide	environmental pollutant	V
49	V N	Decabromdiphenylether s. brominated diphenylether		1163-19-5	2002/95/EC		flame retardant in polymers, textiles and cellular material		V
50	V	Di-μ-oxo-di-n-butylstanniohydroxyborane (DBB) s.a. tin organic compounds		75113-37-0	EU prohibition (76/769/EEC) ChemVerbotsV GefStoffV with App. IV No. 9			for substances and preparations there is a limit/prohibition in acc. with ChemVerbotsV.	V
51	V N	Diarsenic pentaoxide		1303-28-2	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K1	dye, alloying element, wood preservative	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
52	V N	Diarsenic trioxide		1327-53-3	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K1	semiconductor industry, alloying element, wood preservative	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
53	V N	Dibromneopentylglycol (C ₅ H ₁₀ Br ₂ O ₂) (DBNPG)		3296-90-0	customer requirement				V
54	V	Dieldrin	200-484-5	60-57-1	EU prohibition (2455/92/EEC)	T+, K3, N	Insecticide	environmental pollutant	V
55	V N	Diclotylguanidine, N,N'- Di-o-tolylguanidine (DOTG)	202-577-6	97-39-2	TRGS 552	K1	used as additional catalyst in elastomers		V
56	V N	Dimethylvinylchlorid		513-37-1	customer requirement				V
57	V	Dioxine and furane, see chlorinated and brominized dioxine and furane			customer requirement	T		threshold 10 ppm	V

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58	V	Endangered species and plants			CITES		Any Use of parts or materials of protected or endangered plants or animals must be compliant with the CITES-agreement (Cites= Convention on international trade in Endangered Species)		V
59	V	Endnfn	200-775-7	72-20-8	EU prohibition (2455/92/EEC)	T, Xn	herbicides	environmental pollutant	V
60	V	N	607-037-00-7 603-011-00-4	(107-21-1 111-15-9 109-86-4 110-85-5)	TRGS 609, TRGS 905, GefStoffV 67/548/EEC	R ₂ , R ₆₂	solvent for cellulose ester , wax, dyes, PES- and PU- Lacquer and paints, artificial resins, plasticizer for polyester resins, PES-fibers, polyvinylalkohole, polyvinylpyrrolidon	max 5ppm restriction according to TRGS 609	V
61	V	N		140-88-5	customer requirement		polymer		V
62	V	N			customer requirement				V
63	V	N			customer requirement				V
64	V	N				Xn	wood protection agents	environmental pollutant	V
65	V	N		75-69-4 75-71-8 75-72-9 76-11-9 76-12-0 76-13-1 76-14-2 76-15-3 75-45-6 25167-88-8 2317-91-1	EU prohibition (3093/94/EEC) FHC Halone prohibition decree from 6.May 1991 594/91/EEC, EPA ODP class1 EC/2307/2000, CEPA SOR/99-7, US Clean Air Act, CEPA Toxic		refrigerants, blowing agents, detergents, solvents, impregnating agents, foaming agents (PU) aerosole, foamed material	endangering the ozon layer threshold 0ppm; prohibited substances: see CFC halocarbon prohibition decree, all others: subject to declaration	V
66	V		605-001-00-5	50-00-0	TRGS 905, GefStoffV, ChemVerbotsV, VDA list, EC prohibition (76/769/EEC) CEPA Toxic, KIFS 1998:8	K3, S	Residues and cleaving products in plastics (aminoplastic resin, urea resin and melamine resins, foam plastics), vulcanizing accelerator, basis for plastic tanning agents, biocides (e.g. disinfectant agent), adhesives, pressboard rolls, solid coolant lubricants	check limitations for wood materials and textiles; for substances and preparations there is a limit (prohibition in acc. ChemVerbotsV,(76/769/EEC)) threshold 5ppm	V
67	V	N			Swiss Ordinance on Substances Ap. 4.8		capacitors, transformator, housing and plastic cover	0,05/0,005 weight% (mono/polyhalogenated)	V
68	V	N		76253-60-6, 81161-70-8, 99788-47-8, 99688-47-8	VerbotsV GefStoffV mit Anhang IV Nr. 18, 76/769/EEC 91/339/EEC 67/548/EWG VDA (02/2006)		Residues and cleaving products in polymer production PCB-substitute, dielectric liquid in transformers and capacitors	for substances and preparations there is a limit or prohibition in acc. with ChemVerbotsV. 50ppm in Stoffen und Zubereitungen	V
69	V	N			customer requirement				V
70	V	N		353-59-3 75-63-8 124-73-2	EU prohibition (3093/94/EEC) FHC Halone prohibition decree from 6.May 1991 594/91/EEC EC/2307/2000, CEPA SOR/99-7, CEPA Toxic US Clean Air Act,		fire extinguishers and safety systems		V
71	V	N			Packaging EC-directive 94/62/EC		packaging	cumulative 100 ppm, exceptions according §13 packaging regulation e.g. packaging made of lead-crystal, packaging, which is used in a closed cycling system, use of secondary raw materials with polymers	V
72	V	N					In Grundierungen, Füllern und Decklacken; Antikorrosionsmittel in Farben	Dialogue für balancing purposes, effects on recycling 10 ppm anti-corrosion agent	V
73	V		200-962-3	76-44-8	GefStoffV	T, Xn, K3, N	Biocide	environmental pollutant	V
74	V		207-273-9	118-74-1	GefStoffV	T, K2, Xn, N	Fungicide, bactericide, use as plasticizer for plastics	environmental pollutant	V
75	V	N		87-68-3	Canada Prohibition of Certain Toxic Substances Regulation 2005				V
76	V		200-401-2	58-89-9	GefStoffV, TRGS 905	T	insecticides	environmental pollutant	V
77	V	N		67-72-1	ChemVerbotsV, customer requirements		Production and processing of nonferrous metal	for substances and preparations there is a limit/prohibition in acc. with ChemVerbotsV.	V
78	V	N			customer requirements; Montreal Protokoll, 2037/2000/EC, Reg. 899/2007/EC US EPA class I ODS		refrigerants		V
79	V	N		7664-39-3	customer requirement				V
80	V	N			customer requirement, Kyoto Protocol 2037/2000/EC CFC-Halon-Prohibition		refrigerants	for substances and preparations there is a limit/prohibition in acc. with CFC prohibition	V

1	2	3	4	5	6	7	8	9	10
Consecutive No.	N - new	Substance	EU-INDEX-No.:	CAS-No.	Source (law, decree, guideline).	Hazard/risk	example of application/occurrence	Remarks and comments (of 0.1% deviating consideration limit)	
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	U = undesirable (unerwünscht)								
	D = subject to declaration (deklarationspflichtig)								
81	V	N			Kyoto Protocol and customer requirement 2037/2000/ EC	F	refrigerant for substances and Preparations there is a restriction respectively the prohibition according 2037/2000 and CFC/Halon Prohibition Ordinance		V
82	V	N		78-79-5	customer requirement				V
83	V			7439-92-1	TRGS 905, GefStoffV, ChemVerbotsV, BatterieV, 2002/95/EC (RoHS), EU-D67/458/EEC	K3, R ₆₁ , R ₆₃	lead in dyes	threshold 100 ppm with respect to the weight	V
84	V			7439-92-1	TRGS 905, GefStoffV, ChemVerbotsV, BatterieV, 2002/95/EC (RoHS), EU-D67/458/EEC	K3, R ₆₁ , R ₆₃	lead compounds as softener in PVC	threshold with outside cable: 300 ppm; threshold of cables used inside housings: 1000 ppm	V
85	V	N		191-20-031	customer requirement				V
86	V	N			Customer requirement				V
					Nitrite cleaving substances, e.g. certain organic nitro compounds, such as 2-methyl-2-nitro-1,3-propanediol, 2-ethyl-2-nitro-1,3-propanediol, 2-bromo-2-nitro-1,3-propanediol, 2-hydroxymethyl-2-nitro-1,3-propanediol, 4-(2-nitrobutyl)morpholine, 4,4-(2-ethyl-2-nitro-trimethylen)dimorpholine, 5-methyl-5-nitro-1,3-dioxane				
87	V	N			TRGS 905 GefStoffV with App. IV No. 19 67/548/EEC	K1	additives in radiator anti-freeze and coolants, vulcanizing agents for technical rubber articles, conservation of friction linings	TRGS 611: nitrosating or nitrosatable agents (secondary amines) must not be present. Observe application prohibition App. IV No.19 GefStoffV for coolants 1ppm with coolants 10 ppm in anti-freeze agents	V
88	V				EU prohibition (76/769/F104 EEC) TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 2	T, K2		for substances and preparations there are constraints or a prohibition in accordance with ChemVerbotsV.	V
89	V	N		104-40-5 9016-45-9 25154-52-3 84852-15-3	EU prohibition 76/769/ECC (F104) 2003/11/EC ChemVerbotsV		surfaces, cleaning and de-greasing in metal processing soap/surfactant, detergents	environmental oestrogen, environmental pollutant	V
90	V			8065-48-3		Xn, T+	insecticide	environmental pollutant	V
91	V		251-087-9	32536-52-0	EU prohibition (76/769/F104EWG), 2002/95/EC, 2002/96/EC, 2003/11/EC ChemVerbotsV	T	flame retardant in polymers and textiles. Possible formation of dioxine und furane during the recycling process and combustion	max. threshold: 0,1%	V
92	V		251-084-2	32534-81-9	EU prohibition (76/769/F104EWG), 2002/95/EC, 2002/96/EC, 2003/11/EC ChemVerbotsV	Xn, N	flame retardant in polymers and textiles. Possible formation of dioxine und furane during the recycling process and combustion	max. threshold: 0,1%	V
93	V	N		608-93-5	Prohibition of Certain Toxic Substances regulation 2005(SOR/SOR/2005-41. Published in Canada Gazette Part II 2006-11-29 Vol 140 No.24		flame retardant	attentional use is prohibited	V
94	V	N	604-002-00-8	87-86-5 131-52-2	EU prohibition (76/769/ECC) (91/173/EEC, 1999/51/EC), 67/548/EEC CEPA SOR/2000-108 TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 12	K3, M3, R ₆₂	wood protection, salt as protection for leather and skins, stabilizer in latex, tanning agent for leather, impregnationof fibers, textiles, capacitors and transformers	0,01% for products 5 ppm for substances and preparations, observe ChemVerbotsV	V
95	V	N		75-73-0, 76-16-4	COM/2003/492, 2003/87/EC, Kyoto protokol				V
96	V	N		2251-62-4, 2795-39-3	76/769/EEC 2006/122EEC		surface coatings	as substance or compound of preparations 0,005% in semi-finished goods 0,1% with textiles or other coated materials 1 micrometer/m ²	V
97	V	N		135-88-6	67/548/EEC annex 1 AFS 2005:17 bilaga 3 98/24/EG	K	antioxidants		V
98	V	N						0ppm	V
99	V	N			customer requirement			10 ppm	V
100	V	N	602-039-00-4	e.g. 1336-36-3	EU prohibition (76/769/EWG) TRGS 905, ChemVerbotsV GefStoffV with App. IV No. 14 (85/467/EEC) 2002/96/EC, CEPA SOR/91-152, Cepa Toxic	(K3, R ₆₂ , R ₆₂) Xn, N	Insulating medium in electrical installations, switch systems transformers and condensers, in wood and paper impregnation, as plasticizers	Declaration limits: 0 ppm For substances and preparations there is a limit/prohibition in acc. with ChemVerbotsV.	V

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101	V	N							V
		Polychlorinated biphenylether (PCDE) and derivates							
102	V	N						0 ppm	V
		Polychlorinated Dibenzofurane (PCDF) s. chlorinated and brominated dioxines and furanes							
103	V	N						0 ppm	V
		Polychlorinated Dibenzo-p-dioxine s. chlorinated und brominated dioxines und furanes							
104	V	N							V
		Polychlorinated phenols and their compounds							
105	V	N		61788-33-8	EU prohibition (76/769/ECC) TRGS 905, (85/467/EEC, 89/677/EEC), 2002/96/EC, CEPA SOR/96-237, CEPA Toxic Chem/VerbotsV GefStoffV with App. IV No. 14		Insulating medium in electrical installations, switch systems transformers and condensers, in wood and paper impregnation, as plasticizers	Declaration limits: 0.001% For substances and preparations there is a limit/prohibition in acc. with ChemVerbotsV.	V
106	V	N		12642-23-8					V
		Polychloriertes Triphenyl							
107	V	N		70776-03-3	customer requirement, Japan (chemical substance control law), Swiss Ordinance in Substances		grease, laquer, stabilizer, Isolator, flame retardant	5ppm	V
		Polychlorinated Naphtalene (PCN) (more than three chlorine atoms)							
108	V	N			67/548/EEC 2005/69/EC 76/769/EEC (97/10/EC, 97/56/EC), CEPA Toxic, requirements of GADSL and EPA DKE- newsletter ZEK 01-08		oil, bitumen	1-10 ppm in grease and in materials with intentional skin contact	V
		Polycyclic aromatic hydrocarbons PAH (PAK, PCAH), EPA-PAK Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Benzo(a)anthracene, Chrysene, Pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Benzo(e)pyrene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene							
109	V	N			StrSchV 96/29/Euratom		detectors, Thorium in electrodes, protectors for excess voltage, testdesks		V
		Radioactive substances and elemtens							
110	V	N	219-854-2	2551-62-4	VDA (02/2006), COM2003/492, 2003/87/EC, Koyoto Protokoll	K2	dielectricum material in high-voltage installations and devices	substance could support the green house effect	V
		Sulfur hexafluoride (SF ₆)							
111	V	N		127-18-4	CEPA Toxic		anti-grease	carcinogenic substances	V
		Tetrachloroethylene, Perchloroethylene							
112	V	N		56-23-5	customer requirement				V
		Tetrachlormethane (see chlorinated hydrocarbons)							
113	V	N	200-543-5	62-56-6	customer requirement TRGS 905, GefStoffV	R, K3, R ₆ 3	rubber and plastic, additive in rubber chemicals		V
		Thiocarbamide							
114	V	N		7440-29-1	customer requirement			radioactive	V
		Thorium (see also radioactive substances)							

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115	V	N		(1330-78-5)	customer requirement		in grease	0,5% in grease (cumulative)	V
116	V	N		(1330-78-5)	customer requirement		in grease	0,5% in grease (cumulative)	V
117	V	N			EU prohibition (76/769/EEG) ChemVerbotsV GefStoffV with App. IV Nos 5+8 67/548/EEC Japanese regulation Law concerning the Examination and Regulation of Manufacture etc of Chemical Substances	T, N	anti-fouling paints	for substances and preparations there is a limit or prohibition in acc. with ChemVerbotsV.	V
118	V	N		56-35-9	Japan (chemical substance control law), customer requirement EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	Xn, N	detergents, foaming agent for cellular materials, refrigerant, lacquer	REACH- SVHC: PBT: 0.1 %	SVHC
119	V	N		688-73-3	Japan (chemical substance control law), customer requirement		anti-grease, antioxidants, bactericide, fungicide, lacquer	max. 5ppm with respect to the material weight	V
120	V	N		79-01-6	customer requirement	T, K2	anti-grease agent		V
121	V	N		668-34-8	Japan (chemical substance control law) customer requirement		anti-grease, antioxidants, bactericide, fungicide, lacquer	max. 10 ppm	V
122	V	N		126-72-7	customer requirement				V
123	V	N		5455-55-1	EU prohibition (76/769/EEC) 83/264/EEC		Flame retardants in textiles, additive used with polymer stabilizer		V
124	V	N	602-023-00-7	75-01-4	TRGS 905, GefStoffV 76/769/EEC, 67/548/EEC	T, K 1	Residual monomers in polymeres		V
	undesirable								
125	U			115-28-6	customer requirement				U
126	U			115-27-5	customer requirement			allergenic substance	U
127	U	N		65369-76-8			insecticides	environmental pollutant	U
128	U	N	605-026-00-6	106-89-8	TRGS 905, GefStoffV 67/548/EEC	T, K2	Residual monomers in epoxy resins		U
129	U		201-861-7	88-85-7	TRGS 905, GefStoffV	T, N	herbicides	environmental pollutant	U
130	U	N		101-77-9	67/548/EEC TRGS 905, GefStoffV EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K2,M3	Preliminary and interim products from artificial resins, adhesives, dyes, vulcanisation accelerators	carcinogenic substances REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
131	U	N		60-11-7		T	In dyes and LCDs		U
132	U		202-204-7	92-93-3	TRGS 905, ChemVerbotsV GefStoffV with App IV No. 7	K2, T, N			U
133	U	N		120-12-7	customer requirement EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	Xn, N	in creosote	REACH- SVHC: PBT: 0.1 %	SVHC
134	U	N	051-001-00-8	1309-64-4	TRGS 905, GefStoffV 67/548/EEC	K3	flame retardant for plastics and rubber, opacifier in melt coating, friction lining in vehicle manufacturing	customer requirement: max.threshhold 0.1wt% in plastic parts recommended	U
135	U	N	612-072-00-6 612-042-00-2 612-022-00-3 609-039-00-3	92-67-1; 92-87-5 91-59-8; 92-93-3	EU prohibition(76/769/EEC) 67/548/EEC (89/677/EEC, 97/10/EC, 97/56/EC, 2003/3/EC) ChemVerbotsV GefStoffV with App. V No. 2	K1	colorants, antioxidants, grease, rubber, polymers, sometimes as residuals with certain dyes for natural textiles (production in Europe prohibited)	For substances and preparations there is a limit and/or prohibition in acc. with ChemVerbotsV 2-Naphthylamin and its salts: 0.1% acc. to GADSL 4-Nitrophenyl and its salts: 0,01% acc. to GADSL	U
136	U			7440-39-3	customer requirement	Xn	e.g. in oil and lubrication additives, in ferrites in magnets	max. 0,1 % (calculated as element) with exception of Ba-complex soap	U
137	U	N		(7440-39-3)	EU-D 67/548/EEC	Xn	paint pigments, PVC stabiliser, additives in lubricants	BaSO ₄ and Pigments excepted limit of consideration: 0.1%	U
138	U	N		85-68-7	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	N, K2	softener in PVC	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
139	U		(004-001-00-7)	(7440-41-7)	67/548/EEC TRGS 905, GefStoffV 76/769/EEC (97/10/EC, 2003/36/EC) 67/548/EEC (2001/59/EC)	T+, K2, S, N	beryllium oxide: attentional use prohibited steel alloys, point weld electrodes, CuCoBe alloys, alloying for Cu, Al, Ni, K11Co and Fe (beryllide) heat shields for aviation and space travel, non-spark attracting tools, ceramics	As alloy element in metals subject to declaration at 200 ppm	U
140	U	N		57-57-8	customer requirement			0.06%	U
141	U	N		117-81-7	customer requirement	T, R ₂ , R ₄ 2			U
142	U	N		75-27-4	customer requirement				U
143	U	N		151162-2	customer requirement				U
144	U			57137-10-7	customer requirement				U

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145	U N	Chloraniline (siehe Azo-Farbstoffe)	612-910-008	106-47-8	TRGS 905, GefStoffV 67/548/EEC	T, K2	hardener, wetting agents resp. cross linking agent for polymers and epoxy resins		U
146	U	Chlordane (ISO)	200-349-0	57-74-9	TRGS 905, GefStoffV	K3, Xn, N	insecticides	environmental pollutant	U
147	U	Chlorodimelorm		6164-98-3		Xn	insecticides		U
148	U N	Cobalt dichloride		7646-79-9	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K2	dyes, solid lubricant	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
149	U	Copper and compounds		7440-50-8			dyes, alloys, cabling, friction lining, electronics	as dust, toxic	U
150	U N	Cyclododecane		294-62-2	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)		flame retardant	REACH- SVHC: PBT: 0.1 %	SVHC
151	U N	DEHP (Di-(2-ethyl-hexyl)phthalat), s. Bis (2-ethylhexyl) phthalat, siehe auch DOP	204-211-0	117-81-7	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	T, R ₂ , R ₂ 2	softener for polymers (e.g. PVC)	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
152	U N	Dibutyl phthalate (DBP)	607-318-00-4	84-74-2	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	T, R ₂ , R ₂ 2	softener for polymers (e.g. PVC)	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
153	U	Dyes cleaving formaldehyde and solvents					customer requirement		U
154	U N	Hexabromocyclododecans (HBCDD)		25637-99-4	EU risk assessment VDA (02/2006) EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)		flame retardant	REACH- SVHC: PBT: 0.1 %	SVHC
155	U	Hydrogen sulphide cleaving substances	016-006-00-4	7783-06-4		T	cleaving product in vulcanized products	vehicle parts smell, some in-company prohibition	U
156	U	Kerosene		8008-20-6			anti-grease		U
157	U N	Lead hydrogen arsenate		7784-40-9	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K1		REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
158	U N	Musk Ketone		81-14-1			scent	max 0,05%	U
159	U N	Musk Xylene, 5-tert.-Butyl-2,4,6-trinitro-m-xylene		81-15-2	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K2, Xn, N	scent	max 0,05% REACH- SVHC: vPb: 0.1 %	SVHC
160	U N	Nickel and nickel compounds (surfaces)	028-002-00-7	7440-020-0	TRGS 905, GefStoffV 76/769/EEC (97/27/EC, 97/10/EC), 67/548/EEC (2001/59/EC), CEPA Toxic	K3 u. K1, S	weld electrodes, flame spraying, special-purpose materials surface treatment, alloys, batteries	Nickel should be avoided on surfaces, which come in contact with human skin for longer time	U
161	U N	Nitrobenzene		98-95-3			customer requirement	0,06%	U
162	U N	Nitric Acid	231-714-2	7697-37-2			customer requirement		U
163	U	Nitrosamine see Nitrites			67/548/EEC TRGS 552, TRGS 615, TRGS 905 VDA (02/2006)	T+, K2, N		a) mixtures containing nitrites, amines and/or amides which can lead to the formation of nitrosamines or nitrosamides b) mixtures of aromatic nitrosamines with sec. aliphatic amines or other substances which can lead to the formation of nitrosamines or nitrosamides	U
164	U	Nonylphenolpolyglycoether		9016-45-9	EU prohibition (76/769/F104EWG), ChemVerbotsV	N	water-based detergents, soap/surfactant	environmental oestrogen, environmental pollutant	U
165	U N	Organic solvents (e.g., absolute alcohol, toluene, xylene, Ethyl alcohol, ethanol)			1999/13/EC	F			U
166	U N	Persistent bioaccumulative toxic chemical (PBT), very persistent, very bioaccumulative (vPvB) (POP) persistent organic pollutants			1907/2006/EG (REACH)				U
167	U	Polybrominated terphenyl			US TSCA, VDA (02/2006)		Flame retardants in plastic parts and textiles	possible creation of dioxine and furane when recycling, in fires and recovery	U
168	U	Polyvinylchloride (PVC)		9002-86-2			Electronic and mechanical components (except electric cabling)	corrosion and halogenated dibenzodioxines in uncontrolled burn offs; threshold for declaration 5 ppm	U
169	U N	Pyridine		110-86-1			customer requirement	0,06%	U
170	U N	Phosphorus, red	231-768-7	7723-14-0	customer requirement, TRGS 905, GefStoffV	F, N	Flame retardants in plastic parts	Red phosphorous used in polymers must be bound chemically or coated with a stabilizer against hydrolysis or treated	U
171	U N	Sodium dichromate, dihydrate	024-004-01-4	7789-12-0	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K2, M2, R ₂ 2, R ₂ 2	as mordant with dyes, electroplating	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC
172	U N	Tetrabrom-bisphenol A (TBBPA, TBBPA, 2,2',6,6'-Tetrabrom-4,4'-isopropylidendiphenol) und Derivate		79-94-7 21850-44-2	customer requirement, Norwegian PoSH		Flame retardant in plastics		U
173	U	Tetrabromo-bisphenol A carbon-oligomers		94334-64-2	customer requirement		Flame retardant in plastics		U
174	U	Tetrabromophthalic anhydride (TBPA)		632-79-1	customer requirement				U
175	U	Tetrachlorophthalic anhydride (TCPA)		117-08-8	customer requirement				U
176	U	Tin borane	401-040-5	75113-37-0	TRGS 905, GefStoffV	T	Water treatment, anti-fouling paint	toxic	U
177	U N	Toluidin, (o-Toluidin) s. Azo-dyes	202-429-0	95-53-4	TRGS 905	T, N, K2	substance for the manufacturing of dyes, additives in textiles, and other chemicals; also as reagent for lignin		U
178	U N	Toluene see organic solvents		108-88-3	COM/2004/0320, CEPA PSL 1		glue, dyes		U
179	U	Trichloronitromethane (chloropikrin)	200-930-9	76-06-2	TRGS 905, GefStoffV	Xn, T+	Fumigant; Fungicide; Insecticide; Dyes	toxic	U
180	U	Trichlorophenol and its salts (e.g. 2,4,6-Trichlorophenol)	(604-018-00-5), 604-017-00-X	(88-06-2) 95-95-4	TRGS 905, GefStoffV 67/548/EEC	(K3)	fungicide, bactericide, use as conservation for leather and textile		U
181	U	Trichloropropane (1,2,3 -Trichloropropane)	602-062-00-X	96-18-4	TRGS 905 67/548/EEC	(K2, M3, R ₂ 2) Xn	as solvent and tri-functional wetting agent e.g. for polysulphide elastomers		U
182	U N	Triethyl arsenate		15606-95-8	EC-Directive 1907/2006 (REACH SVHC-list of Annex XV)	K1	in electronic components or PVC	REACH- SVHC: CMR: 0.1 % carcinogenic	SVHC

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183	U	Tris(2,3-dibromopropyl) phosphate, TRIS		126-72-7	customer requirement, EU prohibition (76/769/EEC) 79/663/EEC		Flame retardants in polymers, textiles, rubber, coatings, dyes and lacquer		U	
184	U	Vinyl bromide		593-60-2	customer requirement				U	
185	U	White phosphorous (matches)	231-768-7	12185-10-3		T+	matches, flame retardant for polymers	toxic	U	
subject to declaration										
186	D	N			1-Propen, 1,1,2,3,3,3-hexafluor-, polymer mit 1,1-difluorethen Kopolymer (s. HFH, DDV)	9011-17-0			D	
187	D	N			2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-phenol (resp. 2-benzotriazol-2-yl-4,6-diterbutylphenol)	3846-71-7	Japan (legislation on chemical substances)		D	
188	D	N			2,4,6-tris(1,1-dimethylethyl)-phenol	732-26-3			D	
189	D				2-Acetylaminofluorene	53-96-3			D	
190	D		202-713-7	109-86-4	TRGS 905	T, R _e 2, R _r 2	solvent		D	
191	D		202-713-7	110-49-6	TRGS 905	T, R _e 2, R _r 2	solvent		D	
192	D		203-924-4	111-96-6			solvent		D	
193	D	N			3-Methylcholanthrene, 20-Methylcholanthrene	56-49-5			D	
194	D				4-Nitrodiphenyl	92-93-3			D	
195	D	N			Acetaldehyd	75-07-0	67/548/EEC		D	
196	D		616-022-00-4	60-35-5	TRGS 905, GefStoffV 67/548/EEC	K3, Xn	solvent additive, plasticizer stabilizer		D	
197	D	N			Acetophenon	98-86-2		rubber insulation with cables	10 ppm	
198	D		616-003-00-0	79-06-01	TRGS 905, GefStoffV 67/548/EEC	T, K2, M2	Production of polyacrylamide (residual monomer)		D	
199	D				Acrylate, Methacrylate			allergenic potential	D	
200	D	N			Acrylic compounds				D	
201	D				Aliphatic Amine				D	
202	D	N			Alkylphenol ethoxyates (APEO)				D	
203	D				Aluminum and aluminum compounds	7429-90-5			D	
204	D	N			Aluminum alloys with lead as additive	7429-90-5	2002/95/EG (RoHS)		D	
205	D	N			Amine (which might cause cancer and/or nitrosamines)		TRGS 615	polyurethan foams, anti corrosion agents, rubber, dyes, herbicide	D	
206	D	N			Aminotoluene		customer requirement		D	
207	D		007-001-00-5	7664-41-7	Ammonia cleaving substances	TRGS 900, GefStoffV	as cleaving agent in plastic components	skin resorption, unpleasant smell	D	
208	D	N			Ammonium Perchlorate	7790-98-9	VDA (02/2006)	pyrotechnical compound	D	
209	D		(612-008-00-7)	(62-53-3)	Aniline and its salts	TRGS 905, GefStoffV 67/548/EEC	T, K3	dyes, sulfonamides, isocyanate plastics	D	
210	D	N			Anthraquinone		customer requirement		D	
211	D				Anti-ageing agent on phenol and/or amine basis			only in oil and lubrication additives	max. 1 % (cumulation of all substances)	
212	D				Antifouling dyes: see arsenic, hexachlorocyclohexene, mercury, tin organic compounds	GefStoffV with App. IV No. 5		compounds based on Pb, Sn, Cu. As are mainly used in protective coating contained in general such as colophonium, resin ester or modif. artificial resin in combination with tar or bitumin. small amounts chlorinated rubber, chlorinated PP and vinyl resins	For substances and preparations there is a limit and/or prohibition in acc. with ChemVerbotsV	
213	D	N	231-146-5	7440-36-0 (1314-60-9, 10025-91-9, 15432-85-6)	Antimony and its compounds (z.B. Antimonpentoxid, Antimontrichlorid, Natriumantimonat)			alloying agent, semi-conductors, glass ceramics, flame retardants catalyst and lead-free solvents	max. 15g/kg in glass ceramic, otherwise 1000 ppm	
214	D	N			Aromatic hydrocarbons cumulative content in mineral oil products		customer requirement		10% in lubricants und reagents, determination according to DIN IEC 60590	
215	D				Aromatic compounds (as monomers) in general		customer requirements		D	
216	D				Benzotriazole and derivates			only in oil and lubricant additives	max. 0.5 % (cumulative)	
217	D	N			Biocide, coatings consisting of biocides		2032/2002/EEC		D	
218	D		208-832-8	542-88-1	Bis(chloromethyl)ether	TRGS 905, GefStoffV	K1, T+	in PVC, for woodprotection, against pests, against bacteriums and virus		
219	D				Bismuth, its compounds and its alloys	7440-69-9		customer requirements	to make other chemicals in solder alloys	
220	D	N	201-245-8; 603-074-00-8	80-05-7; 25068-38-6; 26265-08-7	Bisphenol A and Derivates e.g. Bisphenol A, Epichlorhydrin polymer; Araldite GY 250; Epon 820; Bisphenol A, epichlorhydrin, tetrabrombisphenol A polymer; Phenol, 4,4'-(1-Methylethyliden)bis(2,6-dibrom-, polymer with (Chlormethyl)oxiran und 4,4'-(1-Methylethyliden)bis(phenol); Tetrabrombisphenol, bisphenol A, epichlorhydrinpolymer	TRGS 905, GefStoffV	Xn, S, RF3	compound or rest monomers in polycarbonates; additive in PVC, epoxy resin	max. 0,0025%	
221	D				Boron and compounds	7440-42-8			as oil and lubricants additives	max. 3 % (calculated as element)
222	D	N			Brass and other copper alloy with lead as additive		2002/95/EC (RoHS)		D	

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223	D N	Bromine and compounds			customer requirement				D
224	D N	Brominated flame retardant: Every flame retardant of this kind has to be declared			customer requirements		in plastics, pcb, and electronic parts; in gaskets; softener in PVC	parts with those flame retardants must be treated as hazardous waste	D
225	D N	Brominated Phenols			customer requirement				D
226	D N	Brominated Polystyrene			customer requirement				D
227	D	Carbon dioxide	204-696-9	124-38-9		N		environmental pollutant	D
228	D	Carbon disulfide	200-843-6	75-15-0		T, R ₃ , R ₃	solvents	toxic	D
229	D	Carbon monoxide	211-128-3	630-08-0		T, R ₆ 1, N		environmental pollutant	D
230	D	Chlorine and compounds		7782-50-5			in oils and lubricant additives	max. 10 ppm (cumulative as element)	D
231	D N	Chloroaceton		143-50-0	2004/850/EC		anti-pest agent		D
232	D N	4-Chloro-m-cresol, 4-Chloro-o-cresol		59-50-7 1570-64-5	customer requirements		in polymers and their precursor		D
233	D	Chromium (III)		16065-83-1			rostfreier Stahl, Legierungselement		D
234	D N	Chromium and compounds							D
235	D N	Chromate and dichromate			76/769/EC		Chromium pigments		D
236	D N	Chrysene			customer requirements				D
237	D N	Coal tar		8007-45-2		K	product of distillation, fillers		D
238	D	Cobalt and cobalt compounds e.g. cobalt oxide, cobalt sulphide, cobalt dichloride		7440-48-4	67/548/EEC 76/769/EEC TRGS 905	K3, S	Hard metals, galvanized Zn-Co-coatings, getter material	Dialogue for balancing purposes; danger from dust and aerosols; otherwise 0.1%	D
239	D	Colophonium, rosin gum	9003-35-4		VDA (02/2006)		solder, glue, sealing material		D
240	D	Cresol	215-293-2	1319-77-3	TRGS 905	T	solvents	0.06%	D
241	D	Cyclohexanone	203-631-1	108-94-1			solvents		D
242	D N	Decabromodiphenylethan 1,1'-[Ethane-1,2-diylbis(pentabrombenzol)]		84852-53-9	customer requirement				D
243	D	Diborane (boron hydride)	242-940-6	19287-45-7	TRGS 905	T	catalyst, rocket fuel		D
244	D	Dichloropropylalcohol (1,3-Dichlor-2-propyl alcohol)	602-064-00-0	(96-23-1)	67/548/EEC, TRGS 905, GefStoffV	K2	solvent for shrink-resistant, flame-retardant textile finishing and production of epoxy resin		D
245	D	Dimethylacetamide	204-826-4	127-19-5	1999/137/EC 91/689/EEC	R ₄ 2, R ₃ 3	solvents	some skin absorption	D
246	D	Dimethylformamide (DMF)	200-679-5	68-12-2	TRGS 905, GefStoffV	T, R ₄ 2	solvents, electrolyte condensators	some skin absorption, reproductive toxic	D
247	D N	Diocetyl and its compounds			customer requirement				D
248	D	DOP (Di-octyl-phthalate) refer to DEHP (Di-(2-ethyl)-hexylphthalate)		117-84-0					D
249	D X	Epoxid resin			customer requirements			allergenic potential	D
250	D	Eriolite		12510-42-8	TRGS 905, GefStoffV	K1	Fibres		D
251	D N	ETFE (Ethylentetrafluorethylen)							D
252	D	Ethoxy ethanol	203-804-1	110-80-5	TRGS 905, GefStoffV	T, R ₂ 2, R ₂ 2, Xn	solvents	toxic	D
253	D	Ethoxyethyl acetate	203-839-2	111-15-9	TRGS 905, GefStoffV	T, R ₂ 2, R ₂ 2	solvents	toxic	D
254	D N	Ethylene diamine tetraacetic acidsodium salt EDTA tetrasodium salt, sodium edetate	200-573-9	64-02-8			aqueous detergents	complexing of heavy metals	D
255	D	Ethylenimine	205-739-9	151-56-4	TRGS 905, GefStoffV	T, K2, M2, N	Polyethylene imine production	toxic, environmental pollutant	D
256	D N	Ferrosilicon			customer requirements		prealloy for steel and cast iron production		D
257	D N	Fluorine and compounds			customer requirement				D
258	D N	Fluorocarbonrubber (FKM Viton)							D
259	D N	Fluorene und Fluoranthene							D
260	D N	Fluororubber							D
261	D N	Fluorotolomer-Alkohole (FTOH)					detergent and waterproofing agent		D
262	D N	Fluorotolomer-Carboxylate (FTCA)					detergent and waterproofing agent		D
263	D N	Fluorotolomer-Sulfonate (FTS)					detergent and waterproofing agent		D
264	D	Galium	231-163-8	7440-55-3			alloying agents		D
265	D	Gold and its compounds		7440-57-5	customer requirements		metal alloys, cable		D
266	D N	Halogenated substances cleaving acid vapor (e.g. with water)							D
267	D N	Halogenic flame retardants			customer requirements		in polymers and their precursors		D
268	D	Halogenated aliphatic hydrocarbons refer to chlorinated hydrocarbons (CHC) and chloroparaffins						10 ppm	D
269	D N	Halogenated aromatic hydrocarbons (see also prohibited substances)			CH StV Anh. 4.8	N	Transformers and Capacitors		D
270	D N	Halogenated biphenyls, terphenyls, naphthalines					Transformers and Capacitors		D
271	D N	Halogenated solvents			customer requirement				D
272	D N	Halogenated organic phosphorous compounds			customer requirement		pesticides, flame retardants		D
273	D N	Hardener in polyamides							D
274	D N	Heavy metals and their compounds except bismuth and molybdenum				(T)	in primers, fillers and covering paints, anti-corrosion agents in paint as pigments in dyes and paints: chromium (Cr), nickel (Ni), mercury (Hg) lead (Pb), cobalt (Co), zinc (Zn), tin (Sn) bismuth (Bi) in grease and packaging materials	Dialogue for balancing purposes, effects on recycling 10 ppm	D
275	D	Hexamethyl phosphoramide	211-653-8	680-31-9	TRGS 905, GefStoffV	K2, T	insulation, freezing and detergent agents	ozone depleting substance	D
276	D N	Hydrofluorocarbonic (HFBC) including C3 (s. a. Methyl Bromide)							D
277	D	Hydrofluorochlorocarbons (HCFC) including C3 (R22, etc)					insulation, freezing and detergent agents	ozone depleting substance	D

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278	D	Hydrazine	007-008-00-3	302-01-2	TRGS 905, GefStoffV 67/548/EEC	T, K2	residual monomers in plastics, dyes, adhesives, anti-oxidants for stabilizing amines, phenols, oils, grease, rubber, foaming agents		D
279	D	Hydrocarbons liquid					petrol, oils etc.		D
280	D	Indium	231-180-6	7440-74-6			semi-conductors		D
281	D	Iron and compounds		7439-89-6	customer requirement				D
282	D	N		75-28-5	customer requirement				D
283	D	N		71000-82-3			in polyurethane, glues, dyes and lacquer		D
284	D	N		67-83-0	customer requirement				D
285	D	N			customer requirement		in polymers and precursors		D
286	D	N			customer requirement				D
287	D	N	231-104-6	7439-95-4			alloying agents (Al)		D
288	D	N	200-812-7	74-82-8		N	fuel gas	environmental pollutant	D
289	D	N		67-56-1	Norwegen, Schweden (SFS 1985:840; SFS 1986:8), Dänemark Finnland				D
290	D		607-190-00-X	77402-03-0	TRGS 905, GefStoffV, 67/548/EEC	K2, M2	polymer production	substance can contain acrylamide	D
291	D	N		101-68-8	customer requirements		hardener for PU		D
292	D	N		78-93-3	customer requirements				D
293	D	N		108-10-1	customer requirements	N		air pollutant	D
294	D	N		684-93-5			pesticide		D
295	D				TRGS 905 IARC monograph 81, 2002 ChemVerbotsV 76/769/EEC (2001/41/EC)	K	friction linings, screening, reinforcement, insulation, cable, thermal insulation material	Hazardous dust, observe K values in TRGS 905 Mineral fibers which are smaller than 5 micrometer in diameter and have an aspect ratio of 3:1 biopersistent fibers which are forbidden according to ChemVerbotsV.	D
296	D		231-107-2	7439-98-7			steel alloys, lubricants		D
297	D						catalyst for PUR foam and stabilizer for PVC		D
298	D	N	203-480-1	107-30-2	TRGS 905, GefStoffV	K1, F, T	solvent	0.06%	D
299	D	N	200-679-5, 616-001-00-X	68-12-2	TRGS 905, GefStoffV	T, R ₂	solvent, electrolyte capacitor	Substance is easily absorbed through the skin	D
300	D	N		32588-76	customer requirements				D
301	D	N			customer requirements				D
302	D		028-002-00-7	7440-020-0	TRGS 905, GefStoffV, 76/769/EEC	K3 u. K1, S	weld electrodes, flame spraying, special-purpose materials	hazardous dust and aerosols, surfaces	D
303	D			9004-70-0	customer requirements		Gas generators e.g. airbag		D
304	D	N			customer requirements				D
305	D			9002-93-1			Soap/Surfactant, Detergents	environmental oestrogen, environmental pollutant	D
306	D						Soap/Surfactant, Detergents	environmental oestrogen, environmental pollutant	D
307	D	N							D
308	D	N							D
309	D	N							D
310	D	N							D
311	D	N		7440-06-4					D
312	D	N					pyrotechnic compounds		D
313	D	N			VDA (02/2006)				D
314	D	N							D
315	D	N							D
316	D	N		335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108-24-5				0,005% for textiles and other coated materials 1 microgram/m ²	D
317	D	N					water-proof agent, detergent		D
318	D	N					water-proof agent, detergent		D
319	D	N					e.g. pesticides		D
320	D		604-001-00-2	108-95-2	67/548/EEC	T	Residual monomers in phenole resins, epoxy resins, use as anti-oxidant in phenole derivatives, cleaving product in polymer materials, wooden materials and textiles	anti-corrosion agent, cleaning agent, emulsion cleaner, grease: 1ppm	D
321	D	N	612-028-00-6	252265-78-3 (95-54-4)	TRGS 905, GefStoffV 67/548/EEC 76/769/EEC	T, K3	pesticides, dyes		D

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322	D	N Phosphor and its compounds		7723-14-0					D
323	D	N Phthalate general, e.g. Butylbenzylphthalat (BBP), Diisononylphthalat (DINP), Disodecylphthalat (DIDP), Di-n-octylphthalat (DNOP), Diisobutylphthalat (DBP), Dimethylphthalat (DMP), Diethylphthalat (s.DEHP und DOP)		85-68-7 28533-12-0 26761-40-0 117-84-0 84-69-5 131-11-3 84-66-2	76/769/EEC (97/10/EC, 1999/43/EC, 2003/36/EC), Dec 1999/815/EC (2004/781/EC), CEPA Toxic		plasticizer for plastics (e.g. PVC), adhesive, lacquer, lubricants		D
324	D	N Platinum and compounds					finishing and coatings	allergenic potential	D
325	D	N Polybutylenterephthalat				customer requirement			D
326	D	N Polycycloether				customer requirement			D
327	D	N Polymers containing halogenes							D
328	D	N Polycylofins							D
329	D	N Polyphenylensulfid (PPS)							D
330	D	N Polytetrafluorethylene (PTFE)					cable coatings, lubricants	formation of toxics in fires	D
331	D	N Polyurethan							D
332	D	N Polyurethan resin				customer requirements		allergenic potential	D
333	D	N Pyrene and Nitropyrene							D
334	D	N Potassium hydroxide		1310-58-3		customer requirement			D
335	D	N Radioactive substances and metal waste			96/29/Euratom, StrSchV		Detectors, surge arresters, measuring equipment in thorium in electrodes	StrSchV	D
336	D	N Rhenium		7440-15-5			filaments, catalysts		D
337	D	N Rubidium	231-126-6	7440-17-7			semi-conductors, photocathodes		D
338	D	N Samarium		7440-19-9			permanent magnets; laser technology		D
339	D	N Selenium and its compounds		7782-49-2	Japan (Waste Disposal and cleansing law)	T	plastics, paint pigments, e-components, sensors	toxic	D
340	D	N Silver and its compounds		7440-22-4			finishings, coating alloying agents	100 ppm	D
341	D	N Silicone and siloxane (silikonoxide)						1 ppm in anti-corrosion and freezing lubricants	D
342	D	N Silicon and its compounds				customer requirement			D
343	D	N Silicon-iron							D
344	D	N Simazine	204-535-2	612-088-00-3		K3	herbicides		D
345	D	N Sodium azide	011-004-00-7	26628-22-8		T	gas generators e.g. airbag	for substances and preparations there is a restriction or prohibition in acc. with ChemVerbotsV.	D
346	D	N Steel with lead as alloying agent			2002/95/EG (RoHS)				D
347	D	N Strontium	231-133-4	7440-17-7			Getter in E-valves, in lead accumulator plates		D
348	D	N Styrene (Vinylbenzene)	601-026-00-0	100-42-5	67/548/EEC	Xn	Residual monomers in ABS, polystyrene, SMC, UPE resin components	steaming of vehicle parts	D
349	D	N Styrene oxide (Epoxy styrene)	603-084-00-2	96-09-3	TRGS 905, GefStoffV 67/548/EEC	K2	residual monomers e.g. in SMC		D
350	D	N Sulphur and its compounds		7704-34-9			customer requirement	in lubricants	D
351	D	N Sulfonates					customer requirement		D
352	D	N Sulfonic acid, C10-21-Alkan-, Phenylester		91082-17-6					D
353	D	N Talc		14807-96-6			in rubber products, additive in polymers	in powder form	D
354	D	N Tantalum and its compounds		7440-25-7			customer requirements		D
355	D	N Tellurium and its compounds	236-813-4	13494-80-9			alloying agent, laser technology		D
356	D	N Tenside z.B. DDTMAC, DODMAC/DSDMAC, DHTDMAC		68783-78-8 107-64-2 61789-80-8					D
357	D	N Tetrabromphthalacidanhydrid					customer requirement	flame retardants	D
358	D	N Tetramethylthioamdisulfid, Thiram (TMTD)	205-286-2	137-26-8	Japan (Waste Disposal and cleansing law) 91/414/EEC (2003/81/EC), Rotterdam PIC substance TRGS 905, GefStoffV	M3	Fastener for vulcanization of rubbers, additive in lubricants, fungicide in Rubber Chemicals		D
359	D	N Thallium and its compounds	081-001-00-3	7440-28-0	67/548/EEC	T	components, sensors, pesticides		D
360	D	N Tin and its compounds, esp. tin organic compounds; e.g. Trialkyl- and Triaryl-tin compounds as well as mono- and dialkyl-tin compounds		7440-31-5	VDA (02/2006) 76/769/EEC (2002/82/EC), CEPA PSL 1		Biozide in antifouling dyes, Stabilizer for polymers and metal alloys	for substances and preparations there is a restriction or prohibition in acc. with ChemVerbotsV.	D
361	D	N Titanium		7440-32-6			customer requirements		D
362	D	N Toluene Diisocyanate (TDI)	209-544-5; 202-039-0	584-84-9; 91-08-7	TRGS 905, GefStoffV	T	Hardener for polymers (PUR)		D
363	D	N Trichlorobenzene, 1,2,4 Trichlorobenzene		120-82-1	COM/2004/0320, CEPA PSL 1		solvent, dyes, wood preservative		D
364	D	N Triclosan		3380-34-5				max. 0.001%	D
365	D	N Tricresylphosphate					only in oil and lubricant additives	Max. 0.5 %	D
366	D	N Triethanolamins e.g. 2,2,2'-Nitritotriethanol		102-71-6	VDA (02/2006)		freezing agent		D
367	D	N Trifluoromethyl sulfur pentafluoride (CF ₃ SF ₅)		373-80-8					D
368	D	N Triglycidylisocyanurat		2451-62-9			customer requirements		D
369	D	N Trimethylphosphate and related compounds		(512-56-1)	TRGS 905, 76/769/EEC		flame retardant agent		D
370	D	N Triphenyl phosphate		115-86-6			customer requirements	flame retardant agent, softener	D
371	D	N Triphenylphosphine		603-35-0		Xn, N	Catalyst in resins (Epoxy)		D

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372	D	Triphenyl phosphite	202-908-4	101-02-0	TRGS 905, GefStoffV	Xn, N	Catalyst in resins (Epoxy)		D
373	D	N Tris(2-chlorethyl)phosphat		115-96-8	67/548/EEC VDA (02/2006)		flame retardants		D
374	D	N Tungsten and its components							D
375	D	N UV-coatings							D
376	D	N Vanadium and its compounds		7440-62-2					D
377	D	N Vinyl toluene compounds							D
378	D	N Volatile organic compounds (VOC)			1999/13/EC (2004/04/EC), CEPA VOC Guidelines, CEPA Toxic		crucial substances in dyes, lacquer and solvents		D
379	D	Yttrium	231-174-8	7440-65-5			Getter in E-valves, permanent magnets		D
380	D	Zinc and compounds		7440-66-6			only in oil and lubricant additives pigment and coatings	Max. 0.5 % (calculated as element); 10 ppm in anti-corrosives and freezing lubricants	D