

Table C5.T1 Substances Classified as Hazardous to Water and Their Respective Water Hazard Classes (WKG)

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
1 acetyl-m-aminobenzoic acid	1 Acetyl-m-aminobenzoësäure	1693	1
1 Benzoylcyanide	Benzoylcyanid	1703	3
1 N-(4-Aminophenyl)-carbamic acid methyl ester	N-(4-Aminophenyl)-carbaminsäuremethylester	1415	2
1 p-Anisic acid	p-Anissäure	1402	1
1,1,1-Trichlor- ethane	1,1,1-Trichlorethan	198	3
1,1,2-Trichlortri- fluorethane	1,1,2-Trichlortrifluorethan	458	2
1,12-Dodecanedioic acid	1,12-Dodecandisäure	1197	0
1,12-Octadecanol	1,12-Octadecanol	1768	0
1,1'-Azobisformamide	1,1'-Azobiscarbamid	1354	1
1,1-Dichloroethene	1,1-Dichlorehthen	794	3
1,2,3-Trichlor- benzene	1,2,4-Trichlorbenzol	454	3
1,2,4,5-tetra methylbenzene	1,2,4, 5-Tetramethylbenzol	191	1
1,2,4-Trivinyl cyclohexane	1,2,4-Trivinylcyclohexan	1776	2
1,2-Bis-(chloromethyl)-benzole	1,2-Bis-(chlormethyl)-Benzol	1701	2
1,2-Dibromethane	1,2-Dibromethan	241	3
1,2-Dichlorbenzene	1,2-Dichlorbenzol	74	2
1,2-Dichlorethane	1,2-Dichlorehthen	102	3
1,2-Dichloro-3-nitrobenzol	1,2-Dichlor-3-nitrobenzol	749	3
1,2-Dichloroethen (cis and trans)	1,2-Dichlorehthen (cis und trans)	795	2
1,2-Dichlorpropane	1,2-Dichlorpropan	446	3
1,2-Diethylbenzol	1,2-Diethylbenzol	78	2
1,2-Dinitrobenzene	1,3-Dinitrobenzol	84	3
1,2-Dodecandiol	1,2-Dodecandiol	1739	1
1,3-Butadiene	1,3-Butadien	218	2
1,3-Diaminopropane	1,3-Diaminopropan	1605	2
1,3-Dichlorbenzene	1,3-Dichlorbenzol	641	2
1,3-Dichloro-4-nitrobenzol	1,3-Dichlor-4-nitrobenzol	1274	3
1,3-Dichlorpropene(cis u. trans)	1,3-Dichlorpropen (cis u. trans)	245	3
1,3-Dinitrobenzene	1,4-Dinitrobenzol	707	3
1,4-Diaminocyclohexane	1,4-Diaminocyclohexan	1000	3
1,4-Dichlorbenzene	1,4-Dichlorbenzol	642	2
1,4-Dinitrobenzene	1,2-Dinitrobenzol	708	3
1,4-Dioxane	1,4-Dioxan	86	2
1-acetamino-7-hydroxynaphthalen	1-Acetamino-7-hydroxynaphthalin	1823	1

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
1-Alkene((14-16)dibutylmaleat (or fumarate) copolymer	1-Alkene((14-16)dibutylmaleat (oder fumarat) copolymer	1916	1
1-Aminoanthraquinone	1-Aminoanthrachinon	1215	1
1-brom-2-fluoromethane	1-Brom-2-fluorethan	972	3
1-brom-3,5-difluorobenzole	1-Brom-3,5-difluorbenzol	1480	2
1-brom-3-chloropropane	1-Brom-3-chlorpropan	920	3
1-Chloro-2-(dichloromethyl)-Benzene	1-Chlor-2-(dichlormethyl)-Benzol	1533	2
1-Chloro-2,4-dinitrobenzene	1-Chlor-2,4-dinitrobenzol	1120	2
1-Chloro-4-(dichloromethyl)-Benzene	1-Chlor-4-(dichlormethyl)-Benzol	1842	2
1-Chlorobutane	1-Chlorbutan	1190	2
1-Chloronephthalene	1-Chlornaphthalin	232	2
1-Chloro-octane	1-Chloroctan	1192	2
1-Dodecanol	1-Dodecanol	1482	1
1-Dodeclamin	1-Dodeclamin	1654	2
2,4-Dichlorotoluol	2,4-Dichlortoluol	1224	2
2,2-Dimethylpropane 14	2,2-Dimethylpropan 14	463	1
2,3-Dibromopropanol-1	2,3-Dibromopropanol-1	242	2
2,3-Dichloraniline	2,3-Dichloranilin	696	3
2,3-Dichlorphenol	2,3-Dichlorphenol	75	3
2,3-Dichlorpropene	2,3-Dichlorpropen	246	3
2,3-Dimethylaniline	2,3-Dimethylanilin	596	2
2,4,5-Trichlor- phenol	2,4,5-Trichlorphenol	455	3
2,4,5-Trichlorphen- oxyacetic acid	2,4,5-Trichlorphenoxyessigsäure	200	3
2,4,6-Trichlor aniline	2,4,6-Trichloranilin	701	3
2,4,6-Trimercaptotriazine	2,4,6-Trimercaptotriazin 8	540	2
2,4,6-Trimercaptotriazine, trisodiumsalt	2,4,6-Trimercaptotriazin, Trinatriumsalz 8	541	2
2,4-Dichloraniline	2,4-Dichloranilin	697	3
2,4-Dichlorbenzylchloride	2,4-Dichlorbenzylchlorid	1553	3
2,4-Dichlorphenol	2,4-Dichlorphenol	244	3
2,4-Diisocyanatotoluene	2,4-Toluylendiisocyanat	511	2
2,4-Dimethylaniline	2,4-Dimethylanilin	82	2
2,4-Dinitroaniline	2,4-Dinitroanilin	704	2
2,4-Dinitrotoluene	2,4-Dinitrotoluol	251	3
2,4-Pentandione	2,4-Pentandion	168	1
2,5-Dichloraniline	2,5-Dichloranilin	698	3
2,5-Dinitrotoluene	2,5-Dinitrotoluol	645	3
2,6-Dichloraniline	2,6-Dichloranilin	699	3
2,6-Dichlorbenzylchloride	2,6-Dichlorbenzylchlorid	990	3
2,6-Dichlorotoluol	2,6-Dichlortoluol	1233	2

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2,6-Diethylaniline	2,6-Diethylanilin	1690	2
2,6-Diisocyanotoluene	2,6-Toluylen-diisocyanat	512	2
2,6-Dimethylaniline	2,6-Dimethylanilin	1521	2
2,6-Dimethylphenol	2,6-Dimethylphenol	1698	2
2,6-Dinitrotoluene	2,6-Dinitrotoluol	646	3
2,6-Di-tert.butyl-4-methylphenol	2,6-Di-tert.butyl-4-methylphenol	724	1
2-acetylamino-4-methylphenol	2-Acetylamino-4-methylphenol	1816	1
2-Amino-5-aminomethylnaphthalen-I sulfuric acid	2-Amino-5-aminomethylnaphthalin-I sulfonsäure	1873	2
2-Amino-5-nitrophenol	2-Amino-5-nitrophenol	1648	2
2-Aminobutane	2-Aminobutan	1171	2
2-Aminophenol	2-Aminophenol	1554	2
2-Anisidine	2-Anisidin	1118	3
2-Bromoethanol	2-Bromethanol	955	3
2-Chloro-4-nitroaniline	2-Chlor-4-nitroanilin	1261	2
2-Chloro-4-nitrotoluol	2-Chlor-4-nitrotoluol	1260	2
2-Chloro-5-nitroaniline	2-Chlor-5-nitroanilin	1808	2
2-Chloro-6-trichloromethylpyridine	2-Chlor-6-trichlormethylpyridin	539	2
2-Chloroaniline	2-Chloranilin	694	2
2-Chlorobenzoicacid	2-Chlorbenzoesäure	225	2
2-Chloroethanol	2-Chorethanol	229	3
2-Chloronitrobenzene	2-Chlornitrobenzol	710	2
2-Chlorophenol	2-Chlorphenol	234	2
2-Chlorotoluene	2-Chlortoluol	55	2
2-Cyclohexylphenol	2-Cyclohexylphenol	1636	3
2-Dehydrolinalool	2-Dehydrolinalool	1175	1
2-Diethylaminoethylamin	2-Diethylaminoethylamin	1563	1
2-Ethyl hexylacrylate	Acrylsäure-2-ethylhexylester	13	1
2-Ethylhexanol-1	2-Ethylhexanol-1	134	2
2-Ethylhexyl ammoniumchloride	2-Ethylhexylammoniumchlorid	537	2
2-Ethylhexylamine	2-Ethylhexylamin-1	109	2
2-Methyl-1-propene	2-Methyl-1-propen	1193	0
2-Methylaniline	2-Methylanilin	195	3
2-Methylcyclo-hexanone	2-Methylcyclohexanon	148	1
2-Methylfurane	2-Methylfuran	151	1
2-Nitroaniline	2-Nitroanilin	702	2
2-Nitroanisole	2-Nitroanisol	647	3
2-Nitrotolyene	2-Nitrotoluol	164	2
2-sek.Butyl phenol	2-sek.Butylphenol	745	2

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3,4-Dichloraniline	3,4-Dichloranilin	700	3
3,4-Dichloro-1-nitrobenzol	3,4-Dichlor-1-nitrobenzol	845	3
3,4-Dichlorophenol	3,4-Dichlorphenol	907	3
3,4-Dichlorotoluol	3,4-Dichlortoluol	1556	2
3,4-Dimethylaniline	3,4-Dimethylanilin	595	2
3,5-Dimethylphenol	3,5-Dimethylphenol	1367	2
3-Aminoacetanilide-4-sulfonic acid	3-Aminoacetanilid-4-sulfonsäure	1532	2
3-Chloroaniline	3-Chloranilin	695	2
3-Chlorobenzoylchloride	3-Chlorbenzoylchlorid	1708	1
3-Chloronitrobenzene	3-Chlornitrobenzol	709	2
3-Diethylaminoacetanilide	3-Diethylaminoacetanilid	1817	1
3-Diethylaminophenol	3-Diethylaminophenol	1540	2
3-Methylaniline	3-Methylanilin	453	2
3-Nitroaniline	3-Nitroanilin	703	2
3-Nitrotoluene	3-Nitrotoluol	643	2
4,4'-Diaminodiphenylaminsulfate	4,4'-Diaminodiphenylaminsulfat	1876	2
4,4-Diaminodiphenylmethane	4,4-Diaminodiphenylmethan	913	3
4,4'-Dimethylphenylether	4,4'-Dimethylphenylether	1745	2
4-acetyl-morpholine	4-Acetyl-morpholin	1747	1
4-Aminoacetanilide-3-sulfonic acid	4-Aminoacetanilid-3-sulfonsäure	1560	1
4-Aminoazobenzol-3,4'-disulfonic acid, Disodiumchloride	4-Aminoazobenzol-3,4'-disulfonsäure, Dinatriumsalz	1406	1
4-Anisidine	4-Anisidin	1128	2
4-Chloro-2-nitroaniline	4-Chlor-2-nitroanilin	706	2
4-Chloroaniline	4-Chloranilin	224	3
4-Chlorobenzoicacid	4-Chlorbenzoesäure	226	2
4-Chloronitrobenzene	4-Chlornitrobenzol	233	2
4-Chlorothiophenol	4-Chlorthiophenol	916	3
4-Chlorotoluene	4-Chlortoluol	237	2
4-Methoxybenzaldehyde dimethyl acetal	Anisaldehyddimethylacetal	1167	1
4-Methylaniline	4-Methylanilin	693	2
4-Nitroaniline	4-Nitroanilin	162	2
4-Nitrotoluene	4-Nitrotoluol	644	2
4-tert. Butyl toluene	4-tert.Butyltoluol	1185	2
4-tert. Butyl phenol	4-tert.Butylphenol	1187	2
4-tert. Butylcyclohexanole	4-tert.Butylcyclohexanol	1186	1
5-Aminosalicylic acid	5-Aminosalicylsäure	1536	2
α, β -Diacetyldigoxin	α, β -Diacetyldigoxin	1072	3
α -acetyldigitoxin	α -Acetyldigitoxin	976	3

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a-acetyldigoxin	a-Acetyldigoxin	1016	3
Acemetacin	Acemetacin	1082	3
Acephate, Orthin	Acephat	677	2
Acetaldehyde	Acetaldehyd	1	1
Acetamide	Acetamid	2	1
Acetic acid (less than 25%)	Essigsäure (> 25 %)	93	1
acetic anhydride	Acetanhydrid	3	1
Acetoacetanilid	Acetoacetanilid	1125	1
Acetone	Aceton 14	6	1
Acetone cyanohydrin	Acetoncyanhydrin	7	3
Acetonitrile	Acetonitril	8	2
Acetophenone	Acetophenon	735	1
acetyl acton peroxide 26	Acetylactonperoxid 26	1491	1
acetyl chloride	Acetylchlorid	784	1
acetyl-β-methyldigoxin-12	Acetyl-β-methyldigoxin-12	1081	3
Acetyldigoxin-12	Acetyldigoxin-12	1060	3
Acetylene	Acetylen	1182	0
Acetylglutoxin- 16	Acetylglutoxin- 16	1030	3
Acetylstrophanthidin-3	Acetylstrophanthidin-3	1024	3
Acetylthiocholine iodide	Acetylthiocholinjodid	987	3
Acid tar	Säureteer	333	3
Acovenoside-a	Acovenosid-A	969	3
Acrolein	Acrolein	9	3
Acroleincyanhydrindane-o-acetate	Acroleincyanhydrin-O-acetat	850	3
Acrylamide	Acrylamid	716	3
Acrylic acid	Acrylsäure	11	1
Acrylic-acid butyl ester	Acrylsäure-n-butylester	12	1
Acrylic-acid ethyl ester	Acrylsäureethylester	208	2
Acrylonitrile	Acrylnitril	10	3
Adenosine-5'-O-(thiodiphosphate), Trilithium-salt	Adenosin-5'-O-(thiodiphosphat), Trilithium-salz	1093	3
Adipic acid-2-ethylhexylester	Adipinsäuredi-2-ethylhexylester	626	1
Adipic acid-hexamethylenediamine salt	Adipinsäure-Hexamethylendiaminsalz	1342	1
Adipicacid (solid)	Adipinsäure 14	474	1
Adpicdinitrile	Adipinsäuredinitril	209	1
Alcohol ethoxylate	Alkoholethoxylate	670	2
Aldrin	Aldrin	464	3
Alkane (C 10-21)sulfonic acid phenyl ester	Alkan (C 10-21)sulfonsäurephenylester	819	1

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Alkoholethersulfate C 12-18 and 2-3 mol EO, Na-salt	Alkoholethersulfat C 12-18 und 2-3 mol EO, Na-Salze	665	2
Alkyl (C > 13)salicylate, branched Calcium and Magnesium salt	Alkyl (C > 13)salicylate, verzweigt Calcium- und Magnesiumsalze 35	1946	2
Alkyl (C 12-C 16)-pyridinium chloride and - bisulfate	Alkyl (C 12-C 16)-pyridiniumchlorid und - bisulfat	601	3
Alkyl (C 12-C 16)trimethylammoniumchloride and -bromide	Alkyl (C 12-C 16)trimethylammoniumchlorid und -bromid	600	3
Alkyl (C10-18)-chloride	Alkyl (C10-18)-Chlorid	1092	3
Alkyl (C15-C30)-benzenesulfonate, branched,	Alkyl (C15-C30)-benzolsulfonate, verzweigt,	1945	2
Alkyl (C8-C18)-benzyldimethylammoniumchloride and -bromide	Alkyl (C8-C18)-benzyldimethylammoniumchlorid und -bromid	599	3
Alkyl-(C 10/13)-benzene	Alkyl-(C 10/13)-benzol	90	1
Alkyl-(C 16-18)-Asparagine-di-Sodium salt	Alkyl-(C16-18)asparaginsäure-di-natriumsalz	1910	1
Alkylolamide	Alkylolamide	673	2
Alkyl alcohol	Allylalkohol	444	2
Allyl-2,3-epoxypropylether	Allyl-2,3-epoxypropylether	1378	3
Allylamine	Allylamin	14	2
Allylammoniumchloride	Allylammoniumchlorid	525	2
Allylchloride	Allylchlorid	15	2
Aluminium oxide	Aluminumoxid	1346	0
Aluminiumdiethylmonochloride	Aluminumdiethylmonochlorid	1206	1
Aluminiummethylsesquichloride	Aluminummethylsesquichlorid	1207	1
Aluminumchloride	Aluminumchlorid 8	507	1
Aluminumhydroxy-chloride	Aluminumhydroxychlorid 8	508	1
Aluminumnitrate	Aluminumnitrat 8	509	1
Aluminumphosphide	Aluminumphosphid	551	2
Aluminum sulfate	Aluminumsulfat 8	486	1
Aminopterin	Aminopterin	871	3
Aminostilbentriazol	Aminostilbentriazol	1890	2
Aminotrimethylenephosphonic acid	Aminotrimethylenephosphonsäure	1821	1
Amitrol	Amitrol	1210	2
Ammonia	Ammoniak	211	2
Ammoniumarsenate	Ammoniumarsenat	289	3
Ammoniumbifluoride	Ammoniumhydrogenfluorid	292	1
Ammoniumbisulfate	Ammoniumhydrogensulfat	293	1
Ammoniumchloride	Ammoniumchlorid	213	1
Ammoniumdichromate	Ammoniumdichromat	290	3

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Ammoniumeisen(II)-sulfate	Ammoniumeisen(II)-sulfat	513	1
Ammoniumfluoride	Ammoniumfluorid	291	1
Ammoniumhexafluorsilicate	Ammomumhexafluorsilikat	544	2
Ammoniummolybdate	Ammoniummolybdat	637	1
Ammoniummonochromate	Ammoniummonochromat	1033	3
Ammoniumnitrate	Ammoniumnitrat	212	1
Ammoniumperchlorate	Ammoniumperchlorat	294	1
Ammoniumperoxodisulfate	Ammoniumperoxodisulfat	836	1
Ammoniumpicrate	Ammoniumpicrat	295	2
Ammoniumsulfide	Ammoniumsulfid	297	2
Ammoniumsulphite	Ammoniumsulfit	296	1
Ammoniumthiocyanate	Ammoniumthiocyanat	1442	1
Ammoniumthiosulfate	Ammoniumthiosulfat	193	1
Amphotericin B	Amphotericin B	981	3
Anilazine	Anilazin	911	3
Aniline	Anilin	20	2
Anilinehydrochloride	Anilinhydrochlorid	298	2
Anisole	Anisol	21	2
Anisotropine methylbromide	Anisotropinmethylbromid	900	3
Anthrachinone	Anthrachinon	1217	1
Antimony(III)-oxide	Antimon(III)-oxid	979	2
Antimycin A	Antimycin A	982	3
a-Olefin sulfonate C14-C18	a-Olefinsulfonate C 14-C 18	666	2
aqua regia	Königswasser	353	2
Argon	Argon	1348	0
Arsenic pentoxide or Arsenic (V) oxide	Arsen(V)-oxid	300	3
Arsenicacid	Arsensäure	301	3
Arsennons oxide or Arsenic (III) oxide	Arsen(III)-oxid	299	3
Arsenoushydride(Arsine)	Arsenwasserstoff	214	3
Atrazine	Atrazin	24	2
Atropine	Atropin	867	2
Atropinmethonitrate	Atropinmethonitrat	869	3
Atropinmethylbromide	Atropinmethylbromid	998	3
Atropinsulfate	Atropinsulfat	876	3
Ottokraftstoffe, als krebserzeugend (R 45) gekennzeichnet	Automobile fuel classified as carcinogenic (R 45)	204	3
Azocyclotin	Azocyclotin	534	3
Barium carbonate	Bariumcarbonat	781	0
Barium selenate	Bariumselenat	1830	2

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Barium selenite	Bariumselenit	1841	2
Barium sulfate	Bariumsulfat	308	0
Bariumchlorate	Bariumchlorat	302	2
Bariumchloride	Bariumchlorid	25	1
Bariumcyanide	Bariumcyanid	303	3
Bariumnitrate	Bariumnitrat	304	1
Bariumoxide	Bariumoxid	305	1
Bariumperchlorate	Bariumperchlorat	306	1
Bariumperoxide	Bariumperoxid	307	1
Bentazon	Bentazon	711	2
Benzal chloride	Benzalchlorid	1225	2
Benzaldehyde	Benzaldehyd	26	2
Benzene	Benzol	29	3
Benzene sulfonylchloride	Benzolsulfonylchlorid	215	1
Benzildimethyl ketal	Benzildimethylketal	1444	2
Benzoguanamine	Benzoguanamin	785	2
Benzoic acid	Benzoesäure	30	1
Benzoic acid methyl ester	Benzoesäuremethylester	1547	1
Benzonitrile	Benzonitril	31	2
Benzoxonium chloride	Benzoxoniumchlorid	1058	3
Benzyl (n-butyl)phthalate	Phthalsäurebenzyl-n-butylester	278	2
Benzylalcohol	Benzylalkohol	216	1
Benzylchloride	Benzotrichlorid	32	1
Benzylchloride	Benzylchlorid	33	2
Beryllium nitrate	Berylliumnitrat	34	2
Beta-Carotene	β-Carotin 14	1416	1
Bis-(2-chloroethyl)ether	Bis-(2-chlorethyl)ether	718	2
Bis-(chloromethyl)ether	Bis-(chlormethyl)ether	956	3
Bis-(tributyltin)-tetrachlorophthalate	Bis-(tributylzinn)-tetrachlorphthalat	565	3
Bitumen	Bitumen	326	0
Boric acid	Borsäure	315	1
Bromelain	Bromelain	1036	3
Bromoacetic Acid	Bromessigsäure	728	2
Bromochlorodifluoromethane	Bromchlordifluormethan	1360	0
Bromocyan	Bromcyan	947	3
Bromophos	Bromophos	617	3
Bromtrifluoromethane 14	Bromtrifluormethan 14	782	1
Brown coaltar	Braunkohlenteer	496	3

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Brucine	Brucin	941	3
Busulfan	Busulfan	877	3
Butyl stannonsacid	Butylstannonsäure	577	1
Butyl thiostannoicacid	Butylthiostannonsäure	578	1
Butyldiethanolamine	Butyldiethanolamin	1572	1
Actinomycine	Actinomycin C-1	863	3
Cadmium acetate	Cadmiumacetat	851	3
Cadmium iodide	Cadmiumjodid	1034	3
Cadmium nitrate	Cadmiumnitrat	49	3
Cadmium Sulfate	Cadmiumsulfat	564	3
Cadmium sulfide	Cadmiumsulfid	1740	3
Calcium acetate 14	Calciumacetat 14	1943	1
Calcium arsenate	Calciumarsenat	360	3
Calcium arsenite	Calciumarsenit	316	3
Calcium carbide	Calciumcarbid	791	1
Calcium carbonate	Calciumcarbonat	317	0
Calcium carbonate	Calciumcarbonat	317	0
Calcium chlorate	Calciumchlorat	318	2
Calcium chloride	Calciumchlorid 14	220	1
Calcium Cyanamid	Calciumcyanamid	790	2
Calcium cyanide	Calciumcyanid	319	3
Calcium fluoride	Calciumfluorid	804	0
Calcium hydroxide	Calciumhydroxid	320	1
Calcium nitrate	Calciumnitrat	321	1
Calcium oxide	Calciumoxid	322	1
Calcium oxide	Calciumperoxid	324	1
Calcium perchlorate	Calciumperchlorat	323	1
Calcium sulfate	Calciumsulfat 14	325	1
Canthaxanthin	Canthaxanthin	1680	0
Carbaryl	Carbaryl	50	3
Carbon	Kohlenstoff	801	0
Carbon dioxide	Kohlenstoffdioxid	256	0
Carbon disulfide	Schwefelkohlenstoff	183	2
Carbon monoxide	Kohlenstoffmonoxid 14	257	1
Carbon tetrachloride	Tetrachlorkohlenstoff	189	3
Carbonic acid	Kohlensäure	354	0
Chinoleine	Chinolin	1299	2
Chloracetamide	Chloracetamid	1517	2

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Chloral hydrate	Chloralhydrat	51	3
Chloramine-T	Chloramin T	640	2
Chloressigsäureethylester	Chloressigsäureethylester	1129	2
Chlorfenvinphos	Chlorfenvinphos	631	3
Chlorhexidin	Chlorhexidin	602	3
Chlorine	Chlor	223	2
Chloroacetic acid	Chloressigsäure	227	2
Chloroalkane	Chloralkane (C 10-C 13)	649	3
Chlorobenzol	Chlorbenzol	53	2
Chlorocyan	Chlorcyan	948	3
Chloroethane	Chlorethan	793	2
Chloroform	Chloroform	54	3
Chloropentafluoroethane	Chlorpentafluorethan	1115	1
Chlorosilane	Chlorsilane 13	557	1
Chlorosulfonic acid	Chlorsulfonsäure	236	2
Chlorpyrifos	Chlorpyrifos	622	3
Chlorthiophos	Chlorthiophos	619	3
Choline chloride	Cholinchlorid	1134	1
chromic acid cleaning mixture	Chromschwefelsäure	327	3
Chromium (III)- chloride, hexahydrate	Chrom(III)-chlorid, Hexahydrat	807	2
Chromium (III)- chloride, free of water	Chrom(III)-chlorid, wasserfrei	844	1
Chromium III oxide	Chrom(III)-oxid	806	0
Chromiumtrioxide (Chromic acid)	Chromtrioxid (Chromsäure)	328	3
chromium(III) sulfate, free of water	Chrom(III)-Sulfat, wasserfrei	841	1
chromium(III) sulfate, alkaline	Chrom(III)-Sulfat, basisch	809	2
Chromium(III)-nitrate, nonahydrate	Chrom(III)-nitrat, Nonahydrat	810	2
Chromolchloride	Chromylchlorid	329	3
Chromomycin A	Chromomycin A	1027	3
Cimetropium bromide	Cimetropiumbromid	1080	3
Citral	Citral	1173	1
Citicacid	Citronensäure 14	57	1
Citronellal	Citronellal	1591	1
Citronellol	Citronellol	1590	1
Climbazol	Climbazol	1078	3
Clonidine hydrochloride	Clonidinhydrochlorid	1005	3
Clonitralid	Clonitralid	862	3
Cobalt (II) chloide	Kobalt(II)-chlorid	493	2
Cobalt (II) nitrate	Kobalt(II)-nitrat	520	2

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Cobalt (II) sulfate	Kobalt(II)-sulfat	521	2
Colcemid	Colcemid	944	3
Colchicine	Colchicin	888	3
Copper (I) chloride	Kupfer(I)-chlorid	358	2
Copper (II) arsenite	Kupfer(II)-arsenit	355	3
Copper (II) arsenite acetate	Kupfer(II)-arsenitacetat	356	3
Copper (II) chlorate	Kupfer(II)-chlorat	357	2
Copper (II) chloride	Kupfer(II)-chlorid	359	2
Copper phthalocyanin	Kupferphthalocyanin	1339	0
Crotonaldehyde	Crotonaldehyd	239	3
crotonic acid	Crotonsäure	1787	1
Crude oil (light1 liquid)	Rohöle (leichtflüssige, kin. Visk. bei 20 °C < 30 cSt, < 0,1 % Benzol)	440	2
Crude oil (thick and solid)	Rohöle (zähflüssige und feste, kin. Visk. bei 20 °C = 30 cSt)	439	1
Cumene	Cumol	58	1
Cumenehydroperoxide	Cumolhydroperoxid	59	2
Cumylperoxyneodecanoate	Cumylperoxyneodecanoat	1470	2
Cyanacetyl methylurea	Cyanacetyl methylharnstoff	1825	1
Cyanamide	Cyanamid	789	2
Cyclododecane	Cyclododecan	777	0
Cycloheptane	Cycloheptan	61	1
Cycloheptene	Cyclohepten	62	1
Cyclohexane	Cyclohexan	63	1
Cyclohexanol	Cyclohexanol	240	1
Cyclohexanone	Cyclohexanon	64	1
Cyclohexene	Cyclohexen	65	1
Cyclohexylacetate	Essigsäurecyclohexylester	66	1
Cyclohexylamine	Cyclohexylamin	67	1
Cyclohexylammoniumchloride	Cyclohexylammoniumchlorid	529	1
Cyclohexylmethanol	Cyclohexylmethanol	1564	1
Cyclohexylmethylketone	Cyclohexylmethylketon	1396	1
Cyclopentane	Cyclopantan	478	1
Cyclopentanole	Cyclopentanol	68	1
Cyclopentanone	Cyclopentanon	69	1
Cyclophosphamide	Cyclophosphamid	860	3
Cyclopropylmethylbromide	Cyclopropylmethylbromid	1026	3
Cyfluthrin	Cyfluthrin	678	3
Cyhexatin	Cyhexatin	451	3

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Cymarin	Cymarin	950	3
Cymarol	Cymarol	942	3
Cypermethrin	Cypermethrin	679	3
Dazomet	Dazomet	1180	3
Decyloxirane	Decyloxiran	1775	1
Dehydrothio-4-toluidino disulonic acid, Di-Sodium-salt	Dehydrothio-4-toluidindisulonsäure, Di-Na-salz	1872	2
Deltamethrin	Deltamethrin	680	3
Demeton-S-methylsulphone	Demeton-S-methylsulphon	607	2
Diacetone alcohol	Diacetonalkohol	72	1
Dialifos	Dialifos	629	3
Dialkyl(C16-C18)dimethyl ammoniumchloride	Dialkyl(C 16-C 18)dimethylammoniumchlorid	674	2
Diallyl phthalate	Phthalsäurediallylester	173	2
Diazinon	Diazinon	609	3
Dibasic sodiumphosphate	Dinatriumhydrogenphosphat	330	1
Dibutylethanolamin	Dibutylethanolamin	1573	1
Dichloromethane	Dichlormethan	149	2
Dichloroacetic acid	Dichloressigsäure	243	1
Dichloroacetylchloride	Dichloracetylchlorid	1117	1
Dichlorvos	Dichlorvos	632	3
Dicyandiamide	Dicyandiamid	247	1
Didodecytin-bis-(isoctyl thioglycolate)	Didodecylinnabis-(thioglycolsäureisoctylester)	574	1
Dieldrin	Dieldrin	467	3
Diesel fuel	Dieselkraftstoff	76	2
Diethanolamine	Diethanolamin	77	1
Diethanolammoniumchloride	Diethanolammoniumchlorid	531	1
Diethyl oxalate	Oxalsaurediethylester	81	1
Diethylamine	Diethylamin	248	1
Diethylaminoethylcellulose	Diethylaminoethylcellulose	1487	0
Diethylaminoethylcellulose	Diethylaminoethylcellulose	1487	0
Diethylammoniumchloride	Diethylammomumchlorid	447	1
diethylene glycol	Diethylenglycol	79	1
Diethylethanolamin	Diethylethanolamin	1288	1
Diethylether	Diethylether	80	1
Diethylphthalate	Phthalsäurediethylester	174	2
Diisobutylketone	Diisobutylketon	591	1
Diisopropylamine	Diisopropylamin	614	2

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Diisopropylammoniumchloride	Diisopropylammoniumchlorid	605	2
Diisopropylether	Diisopropylether	598	1
Dimethoate	Dimethoat	249	3
Dimethyl ammoniumchloride	Dimethylammoniumchlorid	457	1
Dimethylamine	Dimethylamin	250	2
Dimethylether	Dimethylether	714	1
Dimethylsulfate	Dimethylsulfat	734	2
Dimethyltin-bis-(isocetyl thio-glycolate)	Dimethylzinnbis-(thioglycolsäureisoctylester)	575	2
Disodium salt of Benzidine	DinatriumsalzBenzidin	905	3
Di-n-butyl ammoniumchloride	Di-n-butylammoniumchlorid	610	1
Di-n-butylamine	Di-n-butylamin	593	1
Di-n-butylether	Di-n-butylether	73	2
Di-n-butylformal	Di-n-butylformal	1764	1
Dinoseb	Dinoseb	85	2
Diocetyltin-bis-(isocetyl thio-glycolate)	Diocetylzinnbis-(thioglycolsäureisoctylester)	571	2
Diocetyltnoxide	Diocetylzinoxid	570	2
Dipentene	Dipenten	87	1
Diphenyl methane diisocyanate	Diphenylmethandiisocyanat		
Diphenylether	Diphenylether	88	2
Diphylmethane	Diphenylmethan	89	2
Disulfoton	Disulfoton	620	3
Di-tert. Butylperoxid	Di-tert. Butylperoxid	1103	1
Dodecyldimethylamin	Dodecyldimethylamin	1259	2
Dodecyloxiran	Dodecyloxiran	1784	1
Dodecylstannonsäure	Dodecylstannonsäure	584	1
Dodecyltin oxide	Didodecylzinn dichlorid	572	1
Dodecyltin oxide	Didodecylzinoxid	573	1
e-Caprolactame	E-Caprolactam	221	1
Edifenphos	Edifenphos	1048	3
Endrin	Endrin	469	3
Epichlorhydrin	Epichlorhydrin	92	3
Ethane	Ethan	91	0
Ethanol	Ethanol 10 14	96	1
Ethanolamine	Ethanolamin	94	1
Ethanolammonium chloride	Ethanolammoniumchlorid	533	1
Ethene	Ethen	742	0
Ethepron	Ethepron	689	2
Ethoprophos	Ethoprophos	650	3

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Ethyl acetoacetate oder acetoacetic ester	Acetessigsäureethylester	4	1
Ethyl formaline	Ameisensäuremethylester	733	1
Ethyl parathion	Parathionethyl	167	3
Ethyl propionate	Propionsäureethylester	110	1
Ethylacetate	Essigsäureethylester	95	1
Ethylamine	Ethylamin	97	1
Ethylammonium chloride	Ethylammoniumchlorid	558	1
Ethylazinphos	Azinphos-ethyl	627	3
Ethylbromophos	Bromophos-ethyl	618	3
Ethylendiamine	Ethylendiamin	103	2
Ethylendiamin-Hydrochloride	Ethylendiamin-Hydrochlorid	535	2
Ethyleneglycol	Ethyleneglycol 11 14	105	1
Ethyleneglycol-mon-omethyleneether	Ethyleneglycolmonomethylether	107	1
Ethyleneglycol-mono-n-butylether	Ethyleneglycolmono-n-butylether	47	1
Ethylenimine	Ethylenimin	108	3
Ethylenoxide	Ethylenoxid	253	2
Ethyl-n-amylketone	Ethyl-n-amylketon	98	1
Ethyl-n-butyrate	n-Buttersäureethylester	100	1
Ethylpolysilicate	Ethylpolysilikat	488	1
Etrimphos	Etrimphos	623	3
Fatty acid, saturated, not branched with carbon-number between 8 - 12 and an end carboxyl group 11	Fettsäuren, gesättigt. Unverzweigt mit C-Zahl von 8 - 12 und einer endständigen Carboxylgruppe 11	657	1
Fatty acid, unsaturated, not branched with an even numbered carbon-chain, carbon-number between 16-18 and an end carboxyl group 11	Fettsäuren, ungesättigt, unverzweigt mit geradzahliger C-Kette- C-Zahl von 16 -18 und einer endständigen Carboxylgruppe 11	659	1
Fatty acids, C16/18-triethylene Glycol diester	Fettsäuren C16/18-Triethylenglykoldiester	1419	0
Fatty acids, C16-18 and C18 unsaturated isobutyl ester	Fettsäuren C 16 - 18 und C 18 ungesättigt, Isobutylester	1435	0
Fatty acids, C16-18, 2-hexyl decyl-ester	Fettsäuren C16 - 18, 2-Hexyldecyl-ester	1915	0
Fatty acids, saturated, straight with even-numbered C-chain and C-number = 14 and a terminal carboxyl group	Fettsäuren, gesättigt, unverzweigt mit geradzahliger C-Kette und- C-Zahl = 14 und einer endständigen Carboxylgruppe	661	0
Fatty alcohol-EO/PO-adducts	Fettalkohol- EO/PO-Addukte	672	2
Fatty alcohols, saturated, with - even-numbered C-chain and - C-number = 14 and - a terminal OH group	Fettalkohole, gesättigt mit geradzahliger C-Kette C-Zahl mind. 14 und einer endständigen OH Gruppe	656	0

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Fatty alcohols, unsaturated, with - even-numbered straight C-chain and - C-number from 16-18 and - a terminal OH group	Fettalkohole, ungesättigt mit, geradzahliger, unverzweigter C-Kette C-Zahl von 16-18 und einer endständigen OH Gruppe	658	0
Fenpropathrin	Fenpropathrin	681	3
Fenthion	Fenthion	616	3
Fenvalerat	Fenvalerat	682	3
Fluoroacetic acid	Fluoresigsäure	156	3
Flutropium bromide	Flutropiumbromid	1088	3
Folic acid	Folsäure	1504	1
Formaldehyde	Formaldehyd	112	2
Formamide	Formamid	1509	1
Formetanate	Formetanat	1065	3
Formetanate hydrochloride	Formetanathydrochlorid	1066	3
Formicacid	Ameisensäure	210	1
Fuchsin(e)	Fuchsin	857	3
Fufural	Furfural	113	2
Fumaric acid	Fumarsäure	1191	1
Furfetyl alcohol	Furfurylalkohol	114	1
Geranyl acetone	Geranylaceton	1410	2
Gitalin	Gitalin	980	3
Gitaloxin	Gitaloxin	1001	3
Gitoxigenin	Gitoxigenin	957	3
Gitoxin	Gitoxin	1011	3
Glutardialdehyde	Glutardialdehyd	712	2
Glutaric acid	Glutarsäure	1296	1
Glycerine	Glycerin 14	116	1
Glycerine diester	Glycerindiester (Fettsäurerest unverzweigt mit C-Zahl 8 und endständiger Carboxylgruppe 11 14)	691	1
Glycerine monoester	Glycerinmonoester (Fettsäurerest unverzweigt mit C-Zahl 8 und endständiger Carboxylgruppe 11 14)	690	1
Glyoxal	Glyoxal	1130	1
Guanidinhydrochloride	Guanidinhydrochlorid	788	1
Guanidinnitrate	Guanidinnitrat	787	1
Heating oil, heavy	Heizöl, schwer	443	1
Heating oil EL	Heizöl EL	119	2
Heptenophos	Heptenophos	651	3

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Hexachlorbutadiene	Hexachlorbutadien	123	3
Hexachlorobenzene	Hexachlorbenzol	470	3
Hexafluorosilicicacid	Hexafluorkieselsäure	491	2
Hydrazine	Hydrazin	130	3
Hydriquinone	Hydrochinon	128	2
Hydrocyanic acid	Blausäure	9	3
Hydrogen	Wasserstoff	741	0
Hydrogen bromide (hydrobromide acid)	Bromwasserstoff	217	1
Hydrogen fluoride	Fluorwasserstoff	254	1
Hydrogen iodide(Hydroiodic acid)	Jodwasserstoff	332	1
Hydrogen selenide	Selenwasserstoff	284	3
Hydrogen sulfide	Schwefelwasserstoff	283	2
Hydrogenchloride	Chlorwasserstoff 8	238	1
Hydroquinone monomethylether	Hydrochinonmonomethylether	129	1
Imidazoline salt	Imidazoliniumsalz	675	2
Iodine	Jod	492	1
Iron	Eisen	748	0
Iron (111) hydroxide	Eisen(III)-hydroxidoxid	752	0
Iron (II) chloride	Eisen(II)-chlorid	524	1
Iron (II) Sulfate	Eisen(II)-Sulfat 8	514	1
Iron (III) nitrate	Eisen(III)-nitrat 8	516	1
Iron II oxide	Eisen(II)-oxid	750	0
Iron II, III oxide	Eisen(II,III)-oxid	751	0
Iron III oxide	Eisen(III)-oxid	800	0
Isoamyl alcohol	Isoamylalkohol	597	1
Isobutane	Isobutan	562	0
Isobutanol	Isobutanol	131	1
Isobutyl acetate	Essigsäureisobutylester	133	1
Isobutyrenitrile	Isobuttersäurenitril	132	2
Isofenphos	Isofenphos	684	3
Isopentane	Isopentan	648	1
Isopropanol	Isopropanol	135	1
Isopropyl acetate	Essigsäureisopropylester	136	1
Isopropyl myristate	Isopropylmyristat	1608	0
Isostearic acid	Isostearinsäure	1423	0
IXylene (all isomers)	Xylo (alle Isomere)	206	2
Kaliumacetat	Kaliumacetat	757	
L(+)-Ascorbic acid	L(+)-Ascorbinsäure	737	1

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I,I-Dichloroethan	I,I-Dichlorethan	895	3
Lead (II) acetate	Blei(II)-acetat	36	2
Lead (II) arsenate	Blei(II)-arsenat	310	3
Lead (II) arsenite	Blei(II)-arsenit	311	3
Lead (II) cyanide	Blei(II)-cyanid	312	3
Lead (II) nitrate	Blei(II)-nitrat	313	2
Lead (II) per-chlorate	Blei(II)-perchlorat	314	2
Lindane	Lindan	143	3
Lubricating oil(crude oil unmixed or unrefined, highest boiling-point over 400°C)	Schmieröle (Grundöle, unlegierte, außer dunkle Prozeßöle, obere Siedegrenze > 400 °C)	435	1
Lubricating oil(refined or mixed, emulsified, highest boiling-point over 400°C)	Schmieröle (legierte, emulgierbare und nicht emulgierbare, obere Siedegrenze > 400 °C) 19	436	2
Magnesiumarsenate	Magnesiumarsenat	361	3
Magnesiumchlorate	Magnesiumchlorat	362	2
Magnesiumchloride	Magnesiumchlorid 14	259	1
Magnesiumhexa fluorsilicate	Magnesiumhexafluorsilikat	518	2
Magnesiumnitrate	Magnesiumnitrat	363	1
Magnesiumper chlorate	Magnesiumperchlorat	364	1
Magnesiumperoxide	Magnesiumperoxid 14	365	1
Magnesiumphosphide	Magnesiumphosphid	552	2
Magnesiumsulfate	Magnesiumsulfat 14	366	1
Malathion	Malathion	615	3
Maleic acid	Maleinsäure	260	1
m-Aminoacetanilide, Hydrochloride	m-Aminoacetanilid, Hydrochlorid	1711	2
Manganese (II) chloride	Mangan(II)-Chlorid	494	1
Manganese (II) sulfate	Mangan(II)-Sulfat	522	1
Manganese anhydride	Maleinsäureanhydrid	261	1
m-Cresol	m-Kresol	140	2
Mercury	Quecksilber	393	3
Mercury (I) bromide	Quecksilber(I)-bromid	397	3
Mercury (I) chloride	Quecksilber(I)-chlorid	399	3
Mercury (I) nitrate	Quecksilber(I)-nitrat	405	3
Mercury (I) sulfate	Quecksilber(I)-sulfat	411	3
Mercury (II) acetate	Quecksilber(II)-acetat	394	3
Mercury (II) arsenate	Quecksilber(II)-arsenat	395	3
Mercury (II) benzoate	Quecksilber(II)-benzoat	396	3
Mercury (II) bromide	Quecksilber(II)-bromid	398	3

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Mercury (II) chloride	Quecksilber(II)-chlorid	180	3
Mercury (II) cyanide	Quecksilber(II)-cyanid	400	3
Mercury (II) diamine chloride	Quecksilber(II)-diamminchlorid	401	3
Mercury (II) disulfonate	Quecksilber(II)-disulfat	402	3
Mercury (II) gluconate	Quecksilber(II)-gluconat	403	3
Mercury (II) iodide	Quecksilber(II)-jodid	404	3
Mercury (II) nitrate	Quecksilber(II)-nitrat	406	3
Mercury (II) oleate	Quecksilber(II)-oleat	407	3
Mercury (II) oxide	Quecksilber(II)-oxid	408	3
Mercury (II) oxycyanide	Quecksilber(II)-oxidcyanid	409	3
Mercury (II) salicylate	Quecksilber(II)-salicylat	410	3
Mercury (II) sulfate	Quecksilber(II)-Sulfat	412	3
Mercury (II) thiocyanate	Quecksilber(II)-thiocyanat	413	3
Mesityloxide	Mesityloxid	262	1
Metals, if solid, not in colloidal solution and do not react with water or atmospheric oxygen	Metalle, soweit sie fest sind, nicht in kolloidaler Lösung vorliegen und nicht mit Wasser oder Luftsauerstoff reagieren	1443	0
Methamidophos	Methamidophos	688	3
Methane	Methan	1343	0
Methanol	Methanol	145	1
Methidathion	Methidathion	653	3
Methyl methacrylate	Methacrylsäuremethylester	154	1
Methyl acetate	Essigsäuremethylester	146	1
Methyl acrylate	Acrylsäuremethylester	147	2
Methyl chloroacetate	Chloressigsäuremethylester	228	2
Methyl demeton-S	Demeton-S-methyl	655	3
Methyl ethyl ketone	Methylethylketon	150	1
Methyl oxicemeton	Oxidemeton-methyl	608	3
Methyl parathion	Parathionmethyl	274	3
Methyl prirmiphos	Pirimiphos-methyl	676	3
Methyl propionate	Propionsäuremethylester	153	1
Methyl toclofos	Tolclofos-methyl	685	3
Methylacetooacetate	Acetessigsäuremethylester	5	1
Methylamine	Methylamin	263	2
Methylammoniumchlor	Methylammoniumchlorid	459	1
Methylazinphos	Azinphos-methyl	628	3
Methylbromide	Methylbromid	264	3
Methylchloride	Methylchlorid	265	2
Methylisoamylketone	Methylisoamylketon	152	1

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Methylisobutylketone	Methylisobutylketon	137	1
Mevinphos	Mevinphos	633	3
Monobutyl tin tri-chloride	Monobutylzinntrichlorid	579	1
Monobutyl tin-tris -(isooctyl thio-glycolate)	Monobutylzinntris - (thioglycolsäureisoctylester)	580	1
Monodocecytin-tris-(isooctylthioglycolate)	Monododecylzinntris - (thioglycolsäureisoctylester)	586	1
Monododecytin tri-chloride	Monododecylzinntrichlorid	585	1
Monomethyltin-tris-(isooctylester gly -colate)	Monomethylzinntris - (thioglycolsäureisoctylester)	576	2
Monoctyl tin-tris-(isooctylthioglycolate)	Monoctylzinntris - (thioglycolsäureisoctylester)	583	1
Monoctyltin trichloride	Monoocrylzinntrichlorid	582	1
Morpholine	Morpholin	158	2
n-(2-acetoxyethyl)-1,2,3,4-tetrahydro-2,2,4-trimethylquinoline	N-(2-Acetoxyethyl)-1,2,3,4-tetrahydro-2,2,4-trimethylchinolin	1891	2
N-(3-Diethylaminopropyl)amine	N-(3-Diethylaminopropyl)amin	1580	1
N,N-Dibutylformamide	N,N-Dibutylformamid	1721	1
N,N-Diethylaniline	N,N-Diethylanilin	1340	
N,N-Dimethylaniline	N,N-Dimethylanilin	1152	2
N+-acetyl-n- methyl-p-phenylen diamine	N+-Acetyl-N- methyl-p-phenylen diamin	1637	1
n-Alkanesulfonyl chloride (C 10-21)	n-Alkansulfochlorid (C 10-21)	1250	1
N-Alkyl (C12/18)-oxi-2-hydroxypropyldimethyl-cyclohexylammoniumchloride	N-Alkyl (C12/18)-oxi-2-hydroxypropyldimethyl-cyclohexylammoniumchlorid	1091	3
N-Allylthiourea	N-Allylthioharnstoff	16	2
n-Amylacetate	Essigsäure-n-amylester	17	1
n-Amylalcohol	n-Amylalkohol	18	1
Naphthalene	Naphthalin	269	2
Natural substances such as minerals, sand, wood, carbon and pulp, and glass and ceramic materials, if solid, non-dispersed, not water-soluble and inert	Naturstoffe wie Mineralien, Sand, Holz, Zellstoff sowie Gläser und Keramische Materialien, soweit sie fest, nicht dispergiert, wasserunlöslich und indifferent sind	765	0
n-Butane	n-Butan	792	0
n-Butanol	n-Butanol	39	1
n-Butene-1	n-Buten-1	561	0
n-Butyl amine	n-Butylamin	44	1
n-Butyl phosphate	Phosphorsäuretri-n-butylester	196	2
n-Butylacetate	Essigsäure-n-butylester	42	1
n-Butylaldehyde	n-Butylaldehyd	48	1
n-Butylamine	tert.-Butylamin	1510	1

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
n-Butylammoniumchloride	n-Butylammoniumchlorid	527	1
n-Butylglycolate	Glycolsäure-n-butylester	117	1
n-Butyric acid	n-Buttersäure	41	1
n-Decanol	n-Decanol	71	1
N-Ethylaniline	N-Ethylanilin	252	1
n-Heptane	n-Heptan	120	1
n-Heptanol-1	n-Heptanol-1	121	1
n-Heptene-1	n-Hepten-1	122	1
n-Hexane	n-Hexan	124	1
n-Hexanol-1	n-Hexanol-1	125	1
n-Hexanol-2	n-Hexanol-2	126	1
n-Hexanol-3	n-Hexanol-3	127	1
Nickel (II) chloride	Nickel(II)-chlorid	159	2
Nickel (II) nitrate	Nickel(II)-nitrat	387	2
Nickel (II) nitrite	Nickel(II)-nitrit	388	2
Nitric acid (except fuming)	Salpetersäure (außer rauchende)	414	1
Nitric acid (fuming)	Salpetersäure (rauchende)	415	2
Nitric and sulfuric acid	Nitriersäure	389	2
Nitrilotriaceticacid and sodium salt	Nitrilotriessigsäure mit Natrium- und Kaliumsalzen	160	1
Nitrobenzene	Nitrobenzol	163	2
Nitroethane	Nitroethan	588	2
Nitroethane	Nitromethan	589	2
Nitrogen	Stickstoff	1351	0
Nitrogen oxides	Stickoxide	285	1
Nitrosylchloride	Nitrosylehlorid	271	2
n-Octane	n-Octan	479	1
n-Octanol-1	n-Octanol-1	165	1
N-Octene-1	n-Octen-1	480	1
Nonylphenolethoxylate	Nonylphenolethoxylate	671	2
n-Pentane	n-Pantan	452	1
n-Propanol	n-Propanol	176	1
n-vinyl-nmethylacetamide	N-Vinyl-N-methylacetamid	1783	1
o-Chlorobenzonitrile	o-Chlorbenzonitril	1727	2
o-Chlorbenzoylchloride	o-Chlorbenzoylchlorid	1697	1
Omethoate	Omethoat	273	3
Ortho- triethyl formate	ortho-Ameisensäuretriethylester	1195	1
Oxalic acid	Oxalsäure	166	1
Oxygen	Sauerstoff	743	0

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
P,p'-DDD	P,p'-DDD	465	3
P,p'-DDE	P,p'-DDE	466	3
P,p'-DDT	P,p'-DDT	70	3
Palmitic acid isopropyl ester	Palmitinsäureisopropylester	1669	0
p-Aminoacetanilide	p-Aminoacetanilid	1649	1
Paraffin (waxes)	Paraffine (Wachse)	268	0
p-Chlorobenzonitrile	p-Chlorbenzonitril	1713	2
p-Chlorobenzotrichloride	p-Chlorbenzotrichlorid	1265	1
p-Chlorobenzotrifluoride	p-Chlorbenzotrifluorid	1112	2
Pentachlorphenol	Pentachlorphenol	275	3
Pentaerythritol tetra fatty acid ester (C6-C10)	Pentaerythrittetrafettsäureester (C6-C10)	770	0
Perchloric acid	Perchlorsäure	390	1
Permethrin	Permethrin	683	3
Petroleum coke	Petrolkoks	433	0
Phenol	Phenol	170	2
Phenyl aetate	Essigsäurephenylester	171	2
Phosalon	Phosalon	630	3
Phosphamidon	Phosphamidon	652	3
Phosphine (or phos-Phorous hydride)	Phosphorwasserstoff	277	2
Phosphoric acid	Phosphorsäure	392	1
Phosphorous penta-Oxide	Phosphorpentoxid	391	1
Phoxim	Phoxim	686	3
Phthalic acid	Phthalsäure 14	481	1
Picric acid	Pikrinsäure	175	2
Plastics, including granulates, preformed parts, fibres, sheets and plastic resins, if solid, non-dispersed, not water-soluble and inert	Kunststoffe, z.B. Granulate, Formteile, Fasern, Folien, Kunststoffharze, soweit sie fest, nicht dispergiert, wasserunlöslich und indifferent sind	766	0
Polychlorinatedbiphenyls and terphenyls 34	Polychlorierte Biphenyle und Terphenyle 34		
Polychlorinatednaphthalene	Polychlorierte Naphthaline	523	3
Polyethyleneglycol	Polyethylenglycol 11	279	1
Polymeric dispersion agent	Polymerdispersionen 12	662	1
Potassium alum	Kaliumalaun	510	1
Potassium antimonate	Kaliumantimonat (V)	22	3
Potassium antimonyl tartrate	Kaliumantimonyltartrat	334	3
Potassium arsenate	Kaliumarsenat	335	3
Potassium arsenite	Kaliumarsenit	336	3
Potassium carbonate	Kaliumcarbonat	337	1
Potassium chlorate	Kaliumchlorat	52	2

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Potassium chloride	Kaliumchlorid	230	1
Potassium chromate	Kaliumdichromat	339	3
Potassium cyanide	Kaliumcyanid	338	3
Potassium ferric cyanide	Kaliumhexacyanoferrat (111)	490	1
Potassium ferric cyanide	Kaliumhexacyanoferrat (11)	489	1
Potassium fluoride	Kaliumfluorid	341	1
Potassium hexafluorosilicate	Kaliumhexafluorsilikat	517	2
Potassium hydrogen fluoride	Kaliumhydrogenfluorid	342	1
Potassium hydrogen sulfate	Kahumhydrogensulfat	343	1
Potassium hydrogen sulfide	Kaliumhydrogensulfid	344	2
Potassium hydroxide	Kaliumhydroxid	345	1
Potassium mercury (II) tetracyanide	Kaliumtetracyanomerurat (11)	351	3
Potassium mercury (II) tetraiodide	Kahumtetrajodomerurat (II)	352	3
Potassium nitrate	Kalumnitrat	346	1
Potassium nitrite	Kalumnitrit	347	2
Potassium oxide	Kaliumoxid	348	1
Potassium perchlorate	Kalumperchlorat	169	1
Potassium peroxide	Kalumperoxid	349	1
Potassium sulfate	Kaliumsulfat	255	1
Potassium sulfide	Kaliumsulfid	350	2
Prometon	Prometon	613	2
Propane	Propan	560	0
Propargyl alcohol	Propargylalkohol	177	2
Propene	Propen	560	0
Propionic acid	Propionsäure	483	1
Propylene glycol	1,2-Propylenglycol 14	280	1
Pyrazophos	Pyrazophos	624	3
Pyridine	Pyridin	179	2
Pyrocatechol	Brenzcatechin	536	2
Pyrosulfuric acid(oleum)	Dischwefelsäure (Oleum)	331	2
quinomethionate	Chinomethionat	993	3
Salicyl aldehyde	Salicylaldehyd	181	2
Salicylic acid	Salicylsäure	281	1
Sodium nitrate	Natriumnitrat	378	1
sec-Butanol	sek.Butanol	40	1
Secondary Alkane (C 13-C 17)sulfonate	sek. Alkan(C 13-C 17)sulfonate	663	2
Selenium dioxide	Selendioxid	419	2
Selenium acid	Selensäure	420	2

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Silane (solid andliquid)	Silane (feste und flüssige) 13	566	1
Silanol	Silanole 13	568	1
Silica acid, magnesium salt	Kieselsäure, Magnesium-Salz	1315	0
Silicon B	Siicone B 13	543	1
Silicon dioxide	Siliciumdioxid	849	0
Silicon dioxide, surface-treated with hexamethyldisilazane, hydrophobic	Siliciumdioxid, mit Hexamethyldisilazan oberflächenbehandelt, hydrophob	1429	0
Silicone A	Silicone A 13	542	1
Silver arsenite	Silberarsenit	421	3
Silver nitrate	Silbernitrat 8	185	3
Simazin	Simazin	603	2
Sodium acetate	Natriumacetat 14	367	
Sodium adipate	Natriumadipat 14	475	1
Sodium alkyl (C8- C20) sulfate	Natriumalkyl (C8-C20)sulfate	664	2
Sodium arsenite	Natriomarsenit	368	3
Sodium arsentae	Natriumarsenat	23	3
Sodium azide	Natriumazid	636	2
Sodium bicarbonate	Natriumhydrogencarbonat 14	374	1
Sodium bifluoride	Natriumhydrogenfluorid	375	1
Sodium bisulfate	Natriumhydrogensulfat	376	1
Sodium bromide	Natriumbromid	38	1
Sodium carbonate	Natriumcarbonat 8	222	1
Sodium chlorate	Natriumchlorat	370	2
Sodium chloride	Natriumchlorid 14	270	1
Sodium chlorite	Natriumchlorit 8	487	2
Sodium chloro-acetate	Natriumchloracetat	369	2
Sodium cyanide	Natriumcyanid	60	3
Sodium dichromate	Natriumdichromat	56	3
Sodium ethylene diaminetetra acetate	Ethyldiamintetraessigsäure mit Natrium-Salze und Kaliumsalze	104	2
Sodium fluoride	Natriumfluorid	111	1
Sodium fluoro-acetate	Natriumfluoracetat	372	3
Sodium formate	Natriumformiat	373	1
Sodium hydrosulfide	Natriumhydrogensulfid	377	2
Sodium hydroxide	Natriumhydroxid 8	142	1
Sodium molybdat	Natriummolybdat	638	1
Sodium nitrite	Natriumnitrit	161	2
Sodium oxalate	Natriumoxalat	379	1
Sodium oxide	Natriumoxid	380	1

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Sodium pentachlor-phenolate	Natriumpentachlorphenolat	381	3
Sodium perchlorate	Natriumperchlorat	382	1
Sodium peroxide	Natriumperoxid	383	1
Sodium phenolate	Natriumphenolat	384	2
Sodium phosphate,monobasic	Natriumdihydrogenphosphat	371	1
Sodium phosphate,tribasic	Trinatriumphosphat	172	1
Sodium phthalate	Natriumphthalat 14	482	1
Sodium propionate	Natriumpropionat	484	1
Sodium salt of thiosuccinic acid	Sulfobernsteinsäureester, Na-Salze	667	2
Sodium selenate	Natriumselenat	385	2
Sodium selenite	Natriumselenit	184	2
Sodium succinate	Natriumsuccinat 14	477	1
Sodium sulfate	Natriumsulfat 14	286	1
Sodium sulfide	Natriumsulfid 8	188	2
Sodium sulfite	Natriumsulfit 8	282	1
Sodium tetraborate	Natriumtetraborat	37	1
Sodium thiosulfate	Natriumthiosulfat 14	386	1
Sodium hexafluoro-silicate	Natronhexafluorsilikat	519	2
Sodium iodide	Natriumjodid	138	1
Solid (gaseous)	Silane (gasförmige) 13 14	567	0
Soot, industrial, if labelling with R 45 is not required	Ruß, technisch, soweit keine Kennzeichnung mit R 45 erforderlich ist	1742	0
Soybean sterol, refined	Sojasterin, raffiniert	1899	0
β-acetyldigoxin	β-Acetyldigoxin	1015	3
Strontium carbonate	Strontiumcarbonat	803	0
Styrene	Styrol	187	2
Succinic acid	Bernsteinsäure 14	476	1
Sulfotepp	Sulfotepp	687	3
Sulfur dioxide	Schwefeldioxid 8	416	1
Sulfur hexafluoride	Schwefelhexafluorid	846	0
Sulfur trioxide	Schwefeltrioxid	417	2
Sulfur, lumpy	Schwefel, stückig	842	0
Sulfuric acid	Schwefelsäure 8	182	1
Sulfurons acid	Schweflige Säure	418	1
Tall oil	Tallöl	497	2
tall oil fatty acids	Tallölfettsäuren	692	2
Tallow fatty acid isobutyl ester	Talgfettsäureisobutylester	1898	0
Terbufos	Terbufos	621	3
Terbutryn	Terbutryn	612	2

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Terbutylazine	Terbutylazin	604	2
tert. Dodecanthiol	tert. Dodecanthiol	1067	2
tert.-Amylperbenzoate	tert.-Amylperbenzoat	1472	2
tert.-Amylperoxy-2-ethylhexanoate	tert.-Amylperoxy-2-ethylhexanoat	1467	2
tert.-Amylperoxyneodcanoate	tert.-Amylperoxyneodcanoat	1465	2
tert.-Amylperoxypivalate	tert.-Amylperoxypivalat	1466	2
tert-Amylalkohol	tert.Amylalkohol	19	1
tert-Butanol	tert.Butanol	219	1
tert-Butyl acetate	Essigsäure-tert-butylester	43	1
tert-butylbenzene	tert-Butylbenzol	45	1
Tetrachlorethene	Tetrachlorethen	287	3
Tetraethyl lead	Bleitetraethyl	35	3
Tetraethyl silicate	Tetraethylsilikat	450	1
Tetrahydrofuran	Tetrahydrofuran	190	1
Tetramethyl lead	Bleitetramethyl	538	3
Tetraoctyltin	Tetraoctylzinn	554	2
Tetraphenyl tin	Tetraphenylzinn	553	2
Tetrobutyltin	Tetrobutylzinn	498	3
Thallium (I) chlorate	Thallium(1)-chlorat	422	2
Thallium (I) nitrate	Thallium(I)-nitrat	192	2
Thallium (I) sulfate	Thallium(I)-sulfat	555	2
Thallium (II) nitrate	Thallium(III)-nitrat	423	2
Thiabendazol	Thiabendazol	713	2
Thioglycolic acid	Thioglycolsäure	485	1
Tin ester	Esterzinn	587	2
Titanium dioxide	Titandioxid	1345	0
Toluene	Toluol	194	2
Triazophos	Triazophos	625	3
Tributyltin acetate	Tributylzinnacetat	500	3
Tributyltin benzo ate	Tributylzinnbenzoat	546	3
Tributyltin chloride	Tributylzinnchlorid	501	3
Tributyltin fluoride	Tributylzinnfluorid	545	3
Tributyltin linoleate	Tributylzinnlinoleat	549	3
Tributyltin naphthenate	Tributylzinnnaphthenat	548	3
Tributyltin oleate	Tributylzinnoleat	550	3
Tributyltin oxide	Tributylzinoxid	502	3
Tributyltin phosphate	Tributylzinnphosphat	547	3
Trichlorethene	Trichlorethen	199	3

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Trichlorofluoromethane	Trichlorfluormethan	448	2
Trichlorfone	Trichlorfon	634	3
Trichloroacetic acid	Trichloressigsäure	197	2
Triethanolamine	Triethanolamin	201	1
Triethanolammoniumchloride	Triethanolammoniumchlorid	473	1
Triethylamine	Triethylamin	556	1
Triethylammoniumchloride	Triethylammoniumchlorid	559	1
Triethylene glycol	Triethylenglycol	202	1
Triethylphosphate	Phosphorsäuretriethylester	456	1
Triglycerides (industrially untreated or hydrated; fatty acid radical saturated and unsaturated, with even-numbered, straight C-chain and C-number >= 8	Triglyceride (technisch unbehandelt oder hydriert; Fettsäurerest gesättigt und ungesättigt mit geradzahliger, unverzweigter C-Kette und C-Zahl >= 8	760	
Triglycerides (peroxidized, fatty acid radical with even-numbered straight C-chain and C-number >= 12	Triglyceride, (epoxidiert, Fettsäurerest 762 mit geradzahliger unverzweigter C-Kette und C-Zahl >= 12	762	0
Trimethylamine	Trimethylamin	460	2
Trimethylammoniumchloride	Trimethylammoniumchlorid	461	1
Tri-n-butylamine	Tri-n-butylamin	594	2
Tri-n-butylammoniumchloride	Tri-n-butylammoniumchlorid	611	2
tri-n-propylamine	Tri-n-propylamin	1571	2
Triphenyltin acetate	Triphenylzinnacetat	503	3
Triphenyltin chloride	Triphenylzinnchlorid	504	3
Triphenyltin fluoride	Triphenylzinnfluorid	505	3
Triphenyltin hydroxide	Triphenylzinnhydroxid	506	3
Tripropylene glycol	Tripropylenglycol	779	1
Tripropylene glycol-di-acrylate	Tripropylenglykoldiacrylat	1868	2
Tris(1,3-dichloro-iso-propyl phosphate	Tris(1,3-dichloroisoproyl)phosphat	1840	2
Tri-tert.butyltinoxide	Tri-tert.butylzinnoxid	854	3
Tropine	Tropin	925	3
Tropinone	Tropinon	953	3
Trospiumchloride	Trospiumchlorid	1037	3
Tuniamycin	Tunicamycin	1042	3
Turbine fuel	Turbinenkraftstoffe, nicht als krebserzeugend (R45) gekennzeichnet	139	2
Ultramarine Blue	Ultramarinblau 14	1426	1
Uranyl acetate dihydrate	Uranylacetatdihydrat	1023	3
Urea	Harnstoff	118	1
Used oil	Altöle 9	438	3

ENGLISH NAME	GERMAN NAME	NUMBER ¹⁾	WGK ²⁾
Valinomycin	Valinomycin	989	3
Vanadyl (IV) sulfate	Vanadin(IV)-oxidsulfat	856	3
Vanadium pertaoxide	Vanadiumpentoxid	654	2
Vaseline (hydrated)	Vaseline (hydriert)	1935	0
Vinyl acetate	Essigsäurevinylester	203	2
vinyl cyclohexyl ether	Vinylcyclohexylether	1756	1
Vinyl ethyl ether	Vinylethylether	1606	1
Vinyl isobutyl ether	Vinylisobutylether	1146	1
Vinylchloride	Vinylchlorid	462	2
Vinylpropionate	Vinylpropionat	1587	1
Vinylpyrrolidone	Vinylpyrrolidon	1141	2
Zinc	Zink	1349	0
Zinc (II) chloride	Zinn(II)-chlorid	495	1
Zinc (IV) chloride	Zinntetrachlorid	1267	2
Zinc ammonium nitrate	Zinkammoniumnitrat	424	1
Zinc arsenate	Zinkarsenat	425	3
Zinc arsenite	Zinkarsenit	426	3
Zinc chlorate	Zinkchlorat	427	2
Zinc chloride	Zinkchlorid	207	1
Zinc cyanide	Zinkcyanid	428	3
Zinc nitrate	Zinknitrat	429	1
Zinc peroxide	Zinkperoxid	430	1
Zinc phosphide	Zinkphosphid	431	2
Zinc selenite	Zinkselenit	1839	2
Zinc sulfate	Zinksulfat	432	1

Notes

1. Unique identification number of substance, which has been officially assigned a Water Hazard Class
2. WGK (Wassergefährdungsklasse) is the Water Hazard Class

WGK 0 - Substance classified as non-water endangering
 WGK 1 - Substance with a low hazard rating for water
 WGK 2 - Substance with a medium hazard rating for water
 WGK 3 - Substance with a high hazard rating for water

Table C5.T2 Water Hazard Categories of Facilities (A to D) (see C5.2, Definitions)

The following region-specific tables define the Water Hazard Category of Facilities (i.e., categories A to D) based on the Water Hazard Class of the hazardous material stored, and the volume of hazardous material in cubic meters (m^3) or mass in metric tons.

Bayern

Volume in m^3 or mass in metric tons	Water Hazard Class			
	0	1	2	3
up to 0.1	Category A	Category A	Category A	Category A
between 0.1 and 1.0	Category A	Category A	Category A	Category B
between 1.0 and 10	Category A	Category A	Category B	Category C
between 10 and 100	Category A	Category A	Category C	Category D
between 100 and 1000	Category A	Category B	Category D	Category D
above 1000	Category A	Category C	Category D	Category D

Baden-Württemberg

Volume in m^3 or mass in metric tons	Water Hazard Class			
	0	1	2	3
up to 0.1	Category A	Category A	Category A	Category A
between 0.1 and 1.0	Category A	Category A	Category A	Category C
between 1 and 10	Category A	Category A	Category B	Category D
between 10 and 100	Category A	Category A	Category C	Category D
between 100 and 1000	Category A	Category B	Category D	Category D
above 1000	Category A	Category C	Category D	Category D

Hessen

Volume in m³ or mass in metric tons	Water Hazard Class			
	0	1	2	3
up to 0.1	Category A	Category A	Category A	Category A
between 0.1 and 1.0	Category A	Category A	Category A	Category C
between 1.0 and 10	Category A	Category A	Category B	Category D
between 10 and 100	Category A	Category A	Category C	Category D
between 100 and 1000	Category A	Category B	Category D	Category D
above 1000	Category A	Category C	Category D	Category D

Rheinland-Pfalz

Volume in m³ or mass in metric tons	Water Hazard Class		
	1	2	3
up to 0.1	Category A	Category A	Category A
between 0.1 and 1.0	Category A	Category A	Category B
between 1.0 and 10	Category A	Category B	Category C
between 10 and 100	Category A	Category C	Category D
between 100 and 1000	Category B	Category D	Category D
above 1000	Category C	Category D	Category D

Table C5.T3 Combined Hazard Properties of Hazardous Substances

1. Items which are explosive upon friction, impact, or ignition (e.g., certain peroxides)
2. Oxidizing items which are flammable (e.g., peroxides), or which are suitable to ignite combustible materials, or which are explosive in contact with combustibles (e.g., certain chlorates)
3. Extremely flammable items (liquids with a flash point below 0°C, and a boiling point of up to 35°C, or gases which ignite in air under ambient conditions)
4. Highly flammable items (flash point below 21°C, or materials which are easily ignited and keep burning, or materials which release extremely flammable gases in contact with water or moist air)
5. Flammable items (flash point between 21°C and 55°C)
6. Very toxic items, which show very high acute or chronic toxicity if swallowed, inhaled, or upon dermal contact
7. Toxic items, which show high acute or chronic toxicity if swallowed, inhaled, or upon dermal contact
8. Items which are harmful to health, e.g., show moderate acute or chronic toxicity if swallowed, inhaled, or upon dermal contact
9. Corrosive items, which may destroy living tissue
10. Irritant items, which may cause inflammation of the skin
11. Sensitizing items, which may cause allergic reaction at repeated exposure
12. Carcinogenic items
13. Mutagenic items
14. Items which are toxic for reproduction
15. Items which pose a hazard to the environment
16. In the course of normal operations, accidents, leaks, or spills, the item may produce dusts, gases, fumes, vapors, mists, or smokes with one or more of the above characteristics.
17. Compressed gasses

Table C5.T4 Bans and Restrictions on Hazardous Substances

Substance	Prohibition	Exemption
Asbestos and asbestos-containing materials	Use and manufacturing	<ul style="list-style-type: none"> • Research and analyses, • Demolition activities, • Maintenance of existing facilities, • Use of asbestos-containing acetylene pressure bottles manufactured before 31 December 1994 until end of their lifetime
2- Naphthylamin, 4-aminobiphenyl, benzidin, 4-nitrobiphenyl, and their salts	Use and manufacturing	<ul style="list-style-type: none"> • Research and analyses • Intermediate products in closed systems
Arsenic and arsenic compounds	Use in a wide range of applications, including cleaning, painting, and wood preservation	None identified
Benzene	Use	<ul style="list-style-type: none"> • Motor fuels • Industrial processes in closed cycles • Research and analyses
Anti fouling paints containing arsenic, mercury, organostannic compounds, or hexa-chloro cyclohexane	Use	Paints with chemically-bound organostannic compounds, on the hulls of boats of more than 25 m overall length, which are primarily used outside of sweet water areas.
Lead carbonate, lead sulfate	Use of materials containing these compounds, such as lead paints	Paints used for restoration and maintenance of works of art and historical buildings
Mercury and mercury-compounds	Use for: <ul style="list-style-type: none"> • wood preservation • impregnation of heavy-duty industrial textiles and yarn intended for their manufacture • treatment of industrial waters 	None identified
Organostannic compounds	Use for treatment of water in industrial, commercial, or sanitary water	None identified
Di- μ -oxo-di-n-butylstannio-hydroxyborane	Usage and manufacturing	<ul style="list-style-type: none"> • Production of goods with a content of less than 0.1% • Research and analyses
Decorative objects containing liquid hazardous substances	Manufacturing	None identified

Substance	Prohibition	Exemption
or preparations		
Aliphatic chlorinated hydrocarbons	Use of: <ul style="list-style-type: none"> • tetrachloro carbon • 1,1,2,2-tetrachloro ethane • 1,1,1,2-tetrachloro ethane • pentachloro ethane • trichloro methane • 1,1,2-trichloro ethane • 1,1-dichloro ethylene • 1,1,1-trichloro ethane distribution to private users	Use in closed systems by non-private users
Pentachloro phenol and compounds	Use and manufacturing	<ul style="list-style-type: none"> • wood, furniture, and textiles manufactured before 1989 • analyses
Tar oils	Use and manufacturing as wood preservative of: <ul style="list-style-type: none"> • creosote • creosote oil • distillates (coal tar), naphthalene oils • creosote oil, acenaphthene fraction • higher distillates (coal tar) • anthracene oil • tar acids, coal, crude • creosote, wood • low temperature tar oil, alkaline • wood items treated with these substances 	Use and manufacturing in closed systems at up to 3% of water soluble phenol: <ul style="list-style-type: none"> • and up to 5 mg/kg benzo(a)pyrene, for non-private users and outdoor application • up to 50 mg/kg benzo(a)pyrene, for certain impregnation methods Use of treated wood for certain applications
Polychlorinated biphenyls (PCB) and terphenyle (TCB) and monomethyltetrachlor diphenymethan, monomethyl dichloro diphenymethan, monomethylsibromdiphenylmethan	Use and manufacturing See Chapter 14, PCBs	See Chapter 14, PCBs
Vinyl chloride	Use as aerosol propellant	Research, education, and analyses
Cadmium and cadmium-compounds	Use for: <ul style="list-style-type: none"> • dying plastics • stabilizers in a wide range of PVC products • treatment of metallic surfaces 	<ul style="list-style-type: none"> • Coloring or stabilizing required for safety reasons • Research, education, analyses • Certain applications requiring high safety standards, including aviation,

Substance	Prohibition	Exemption
	for a wide range of applications Use of cadmium -containing paints	mining, off-shore, and nuclear energy • Safety components for road and agricultural vehicles, railbound vehicles, and vessels
Cooling lubricants with nitrosating agents	Use	None identified
DDT	Use and manufacturing	None identified
Hexachloro hexane	Use for manufacturing of processing of non-iron metals	• Research, education, analyses • Certain processes for aluminum and magnesium manufacturing
Biopersistent fibers	Use and manufacturing of artificial mineral fibers	Fibers which have been confirmed to be non-cancerogenic

Table C5.T5 Thresholds for Classification of Preparations Containing Hazardous Substances

Danger Category of the Substance ¹⁾	Concentration to take into consideration for:	
	Gaseous preparations %vol/vol	Other preparations %w/w
Very toxic	≥0.02	≥0.1
Toxic	≥0.02	≥0.1
Carcinogenic Category 1 or 2 ¹⁾	≥0.02	≥0.1
Mutagenic Category 1 or 2 ¹⁾	≥0.02	≥0.1
Toxic for Reproduction Category 1 or 2 ¹⁾	≥0.02	≥0.1
Harmful	≥0.2	≥1.0
Corrosive	≥0.02	≥1.0
Irritant	≥0.2	≥1.0
Sensitizing	≥0.2	≥1.0
Carcinogenic Category 3 ¹⁾	≥0.2	≥1.0
Mutagenic Category 3 ¹⁾	≥0.2	≥1.0
Toxic for Reproduction Category 3 ¹⁾	≥0.2	≥1.0
Dangerous for the Environment		≥0.1
Dangerous for the Environment Ozone	≥0.1	≥0.1
Dangerous for the Environment		≥1.0
Notes:		
1. Categories:		
Category 1: Substances which are confirmed to cause hazard to humans		
Category 2: Substances which are very likely to cause hazard to humans		
Category 3: Substances which are suspected to cause hazard to humans		

Table C5.T6 R- and S-Phrases**R-Sätze:****R-Phrases:**

- R1 *In trockenem Zustand explosionsgefährlich.*
 Explosive when dry.
- R2 *Durch Schlag, Reibung, Feuer oder andere Zündquellen explosionsgefährlich.*
 Risk of explosion by shock, friction, flame, or other sources of ignition.
- R3 *Durch Schlag, Reibung, Feuer oder andere Zündquellen besonders explosionsgefährlich.*
 Extreme risk of explosion by shock, friction, flame or other sources of ignition.
- R4 *Bildet hochempfindliche explosionsgefährliche Metallverbindungen.*
 Forms very sensitive explosive metallic salts.
- R5 *Beim Erwärmen explosionsfähig.*
 Heating may cause an explosion.
- R6 *Mit und ohne Luft explosionsfähig.*
 Explosive with or without contact with air.
- R7 *Kann Brand verursachen .*
 May cause fire.
- R8 *Feuergefahr bei Berührung mit brennbaren Stoffen.*
 Contact with combustible material may cause fire.
- R9 *Explosionsgefahr bei Mischung mit brennbaren Stoffen.*
 Explosive when mixed with combustible material.
- R10 *Entzündlich. Brennbar*
 Flammable.
- R11 *Leichtentzündlich.*
 Very flammable.
- R12 *Hochentzündlich.*
 Highly flammable.

- R14 *Reagiert heftig mit Wasser.*
Reacts violently with water.
- R15 *Reagiert mit Wasser unter Bildung hochzündlicher Gase.*
Contact with water liberates extremely flammable gases.
- R16 *Explosionsgefährlich in Mischung mit brandfördernden Stoffen.*
Explosive when mixed with oxidising substances.
- R17 *Selbstentzündlich an der Luft.*
Spontaneously flammable in air.
- R18 *Bei Gebrauch Bildung explosionsfähiger/leichtentzündlicher Dampf-Luft-Gemische möglich.*
In use, may form flammable/explosive vapor-air mixture.
- R19 *Kann explosionfähige Peroxide bilden.*
May form explosive peroxides.
- R20 *Gesundheitsschädlich beim Einatmen.*
Harmful by inhalation.
- R21 *Gesundheitsschädlich bei Berührung mit der Haut.*
Harmful in contact with skin.
- R22 *Gesundheitsschädlich beim Verschlucken.*
Harmful if swallowed.
- R23 *Giftig beim Einatmen.*
Toxic by inhalation.
- R24 *Giftig bei Berührung mit der Haut.*
Poisonous by skin contact.
- R25 *Giftig beim Verschlucken.*
Toxic if swallowed.
- R26 *Sehr giftig beim Einatmen.*
Very toxic by inhalation.

- R27 *Sehr giftig bei Berührung mit der Haut.*
Very toxic in contact with skin.
- R28 *Sehr giftig beim Verschlucken.*
Very toxic if swallowed.
- R29 *Entwickelt bei Berührung mit Wasser giftige Gase.*
Contact with water liberates toxic gas.
- R30 *Kann bei Gebrauch leicht entzündlich werden.*
Can become highly flammable in use.
- R31 *Entwickelt bei Berührung mit Säure giftige Gase.*
Contact with acids liberates toxic gas.
- R32 *Entwickelt bei Berührung mit Säure sehr giftige Gase.*
Contact with acids liberates extremely toxic gas.
- R33 *Gefahr kumulativer Wirkungen.*
Danger of cumulative effects.
- R34 *Verursacht Verätzungen.*
Causes burns.
- R35 *Verursacht schwere Verätzungen.*
Causes severe burns.
- R36 *Reizt die Augen.*
Causes irritation of the eyes.
- R37 *Reizt die Atmungsorgane.*
Irritating to respiratory system.
- R38 *Reizt die Haut.*
Causes irritation of the skin.
- R39 *Ernste Gefahr irreversiblen Schadens.*
Danger of very serious irreversible effects.

- R40 *Irreversibler Schaden möglich.*
Possible risks of irreversible effects.
- R41 *Gefahr ernster Augenschäden.*
Risk of serious damage to eyes.
- R42 *Sensibilisierung durch Einatmen möglich.*
May cause sensitization by inhalation.
- R43 *Sensibilisierung durch Hautkontakt möglich.*
May cause sensitization by skin contact.
- R44 *Explosionsgefahr bei Erhitzen unter Einschluß.*
Risk of explosion if heated under confinement.
- R45 *Kann Krebs erzeugen.*
May cause cancer.
- R46 *Kann vererbbares Schäden verursachen.*
May cause inheritable genetic damage.
- R48 *Gefahr ernster Gesundheitsschäden bei längerer Exposition.*
Extended exposure may cause serious health damages.
- R49 *Kann Krebs erzeugen beim Einatmen.*
May cause cancer by inhalation.
- R50 *Sehr giftig für Wasserorganismen.*
Very toxic to aquatic organisms.
- R51 *Giftig für Wasserorganismen.*
Toxic to aquatic organisms.
- R52 *Schädlich für Wasserorganismen.*
Harmful to aquatic organisms.
- R53 *Kann in Gewässer längerfristig schädliche Wirkung haben.*
May cause long-term adverse effects in the aquatic environment.

- R54 *Giftig für Pflanzen.*
Toxic to flora.
- R55 *Giftig für Tiere.*
Toxic to fauna.
- R56 *Giftig für Bodenorganismen.*
Toxic to soil organisms.
- R57 *Giftig für Bienen.*
Toxic to bees.
- R58 *Kann längerfristig schädliche Wirkung auf die Umwelt haben.*
May cause long-term adverse effects in the environment.
- R59 *Gefährlich für die Ozonschicht.*
Dangerous for the ozone layer.
- R60 *Kann die Fortpflanzungsfähigkeit beeinträchtigen.*
May impair fertility.
- R61 *Kann das Kind im Mutterleib schädigen.*
May cause harm to the unborn child.
- R62 *Kann möglicherweise die Fortpflanzungsfähigkeit beeinträchtigen.*
Possible risk of impaired fertility.
- R63 *Kann das Kind im Mutterleib möglicherweise schädigen.*
Possible risk of harm to the unborn child.
- R64 *Kann Säuglinge über die Muttermilch schädigen.*
May cause harm to breastfed babies.
- R65 *Gesundheitsschädlich: kann beim Verschlucken Lungenschäden verursachen.*
Harmful: may cause lung damage if swallowed.
- R66 *Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.*
Repeated exposure may cause skin dryness or cracking.

R67 *Dämpfe können Schläfrigkeit und Benommenheit verursachen.*
Vapors may cause drowsiness or dizziness.

Kombinationen der R-Sätze:
Combination of R-Phrases:

- R14/15 *Reagiert heftig mit Wasser unter Bildung hochentzündlicher Gase.*
Reacts violently with water, liberating extremely flammable gases.
- R15/29 *Reagiert mit Wasser unter Bildung giftiger und hochentzündlicher Gase.*
Contact with water liberates toxic, extremely flammable gas.
- R20/21 *Gesundheitsschädlich beim Einatmen und bei Berührung mit der Haut.*
Harmful by inhalation and in contact with skin.
- R20/21/22 *Gesundheitsschädlich beim Einatmen, Verschlucken und bei Berührung mit der Haut.*
Harmful by inhalation, in contact with skin and if swallowed.
- R20/22 *Gesundheitsschädlich beim Einatmen und Verschlucken.*
Harmful by inhalation and if swallowed.
- R21/22 *Gesundheitsschädlich bei Berührung mit der Haut und beim Verschlucken.*
Harmful in contact with skin and if swallowed.
- R23/24 *Giftig beim Einatmen und bei Berührung mit der Haut.*
Toxic by inhalation and in contact with skin.
- R23/24/25 *Giftig beim Einatmen, Verschlucken und bei Berührung mit der Haut.*
Toxic by inhalation, in contact with skin, and if swallowed.
- R23/25 *Giftig beim Einatmen und Verschlucken.*
Toxic by inhalation and if swallowed.
- R24/25 *Giftig bei Berührung mit der Haut und beim Verschlucken.*
Toxic in contact with skin and if swallowed.
- R26/27 *Sehr giftig beim Einatmen und bei Berührung der Haut.*
Very toxic by inhalation and in contact with skin.

R26/27/28	<i>Sehr giftig beim Einatmen, Verschlucken und Berührung mit der Haut.</i> Very toxic by inhalation, in contact with skin, and if swallowed.
R26/28	<i>Sehr giftig beim Einatmen und Verschlucken.</i> Very toxic by inhalation and if swallowed.
R27/28	<i>Sehr giftig bei Berührung mit der Haut und beim Verschlucken.</i> Very toxic in contact with skin and if swallowed.
R36/37	<i>Reizt die Augen und die Atmungsorgane.</i> Irritating to eyes and respiratory system.
R36/37/38	<i>Reizt die Augen, Atmungsorgane und die Haut.</i> Irritating to eyes, respiratory system, and skin.
R36/38	<i>Reizt die Augen und die Haut.</i> Irritating to eyes and skin.
R37/38	<i>Reizt die Atmungsorgane und die Haut.</i> Irritating to respiratory system and skin.
R39/23	<i>Giftig: ernste Gefahr irreversiblen Schadens durch Einatmen.</i> Toxic: danger of very serious irreversible effects through inhalation.
R39/23/24	<i>Giftig: ernste Gefahr irreversiblen Schadens durch Einatmen und bei Berührung mit der Haut.</i> Toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
R39/23/24/25	<i>Giftig: ernste Gefahr irreversiblen Schadens durch Einatmen, Berührung mit der Haut und durch Verschlucken.</i> Toxic: danger of very serious irreversible effects through inhalation, in contact with skin, and if swallowed.
R39/23/25	<i>Giftig: ernste Gefahr irreversiblen Schadens durch Einatmen und durch Verschlucken.</i> Toxic: danger of very serious irreversible effects through inhalation and if swallowed.
R39/24	<i>Giftig: ernste Gefahr irreversiblen Schadens bei Berührung mit der Haut.</i> Toxic: danger of very serious irreversible effects in contact with skin.

- R39/24/25 *Giftig: ernste Gefahr irreversiblen Schadens bei Berührung mit der Haut und durch Verschlucken.*
Toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
- R39/25 *Giftig: ernste Gefahr irreversiblen Schadens durch Verschlucken.*
Toxic: danger of very serious irreversible effects if swallowed.
- R39/26 *Sehr giftig: ernste Gefahr irreversiblen Schadens durch Einatmen.*
Very toxic: danger of very serious irreversible effects through inhalation.
- R39/26/27 *Sehr giftig: ernste Gefahr irreversiblen Schadens durch Einatmen und bei Berührung mit der Haut.*
Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
- R39/26/27/28 *Sehr giftig: ernste Gefahr irreversiblen Schadens durch Einatmen, Berührung mit der Haut und durch Verschlucken.*
Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin, and if swallowed.
- R39/26/28 *Sehr giftig: ernste Gefahr irreversiblen Schadens durch Einatmen und durch Verschlucken.*
Very toxic: danger of very serious irreversible effects through inhalation and if swallowed.
- R39/27 *Sehr giftig: ernste Gefahr irreversiblen Schadens bei Berührung mit der Haut.*
Very toxic: danger of very serious irreversible effects in contact with skin.
- R39/27/28 *Sehr giftig: ernste Gefahr irreversiblen Schadens bei Berührung mit der Haut und durch Verschlucken.*
Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
- R39/28 *Sehr giftig: ernste Gefahr irreversiblen Schadens durch Verschlucken.*
Very toxic: danger of very serious irreversible effects if swallowed.
- R40/20 *Gesundheitsschädlich: Möglichkeit irreversiblen Schadens durch Einatmen.*
Harmful: possible risk of irreversible effects through inhalation.
- R40/20/21 *Gesundheitsschädlich: Möglichkeit irreversiblen Schadens durch Einatmen und bei Berührung mit der Haut.*
Harmful: possible risk of irreversible effects through inhalation and in contact with skin.

R40/20/21/22	<p><i>Gesundheitsschädlich: Möglichkeit irreversiblen Schadens durch Einatmen, Berührung mit der Haut und durch Verschlucken.</i></p> <p>Harmful: possible risk of irreversible effects through inhalation, in contact with skin, and if swallowed.</p>
R40/20/22	<p><i>Gesundheitsschädlich: Möglichkeit irreversiblen Schadens durch Einatmen und durch Verschlucken.</i></p> <p>Harmful: possible risk of irreversible effects through inhalation and if swallowed.</p>
R40/21	<p><i>Gesundheitsschädlich: Möglichkeit irreversiblen Schadens bei Berührung mit der Haut.</i></p> <p>Harmful: possible risk of irreversible effects in contact with skin.</p>
R40/21/22	<p><i>Gesundheitsschädlich: Möglichkeit irreversiblen Schadens bei Berührung mit der Haut und durch Verschlucken.</i></p> <p>Harmful: possible risk of irreversible effects in contact with skin and if swallowed.</p>
R40/22	<p><i>Gesundheitsschädlich: Möglichkeit irreversiblen Schadens durch Verschlucken.</i></p> <p>Harmful: possible risk of irreversible effects if swallowed.</p>
R42/43	<p><i>Sensibilisierung durch Einatmen und Hautkontakt möglich.</i></p> <p>May cause sensitization by inhalation and skin contact.</p>
R48/20	<p><i>Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen.</i></p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p>
R48/20/21	<p><i>Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen und durch Berührung mit der Haut.</i></p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.</p>
R48/20/21/22	<p><i>Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen, Berührung mit der Haut und durch Verschlucken.</i></p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin, and if swallowed.</p>
R48/20/22	<p><i>Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen und durch Verschlucken.</i></p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.</p>
R48/21	<p><i>Gesundheitsschädlich: Gefahr bei ernster Gesundheitsschäden bei längerer Exposition durch Berührung mit der Haut.</i></p> <p>Harmful: danger of serious damage to health by prolonged exposure in contact with skin.</p>

R48/21/22	<p><i>Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Berührung mit der Haut und durch Verschlucken.</i></p> <p>Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.</p>
R48/22	<p><i>Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Verschlucken.</i></p> <p>Harmful: danger of serious damage to health by prolonged exposure if swallowed.</p>
R48/23	<p><i>Giftig: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen.</i></p> <p>Toxic: danger of serious damage to health by prolonged exposure through inhalation.</p>
R48/23/24	<p><i>Giftig: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen und durch Berührung mit der Haut.</i></p> <p>Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.</p>
R48/23/24/25	<p><i>Giftig: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen, Berührung mit der Haut und durch Verschlucken.</i></p> <p>Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin, and if swallowed.</p>
R48/23/25	<p><i>Giftig: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen und durch Verschlucken.</i></p> <p>Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.</p>
R48/24	<p><i>Giftig: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Berührung mit der Haut.</i></p> <p>Toxic: danger of serious damage to health by prolonged exposure in contact with skin.</p>
R48/24/25	<p><i>Giftig: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Berührung mit der Haut und durch Verschlucken.</i></p> <p>Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.</p>
R48/25	<p><i>Giftig: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Verschlucken.</i></p> <p>Toxic: danger of serious damage to health by prolonged exposure if swallowed.</p>
R50/53	<p><i>Sehr giftig für Wasserorganismen, kann in Gewässern längerfristig schädliche Wirkungen haben.</i></p> <p>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>

- R51/53 *Giftig für Wasserorganismen, kann in Gewässern längerfristig schädliche Wirkungen haben.*
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 *Schädlich für Wasserorganismen, kann in Gewässern längerfristig schädliche Wirkungen haben.*
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Sätze:**S-Phrases:**

- S1 *Unter Verschluß aufbewahren.*
 Keep this material locked up.
- S2 *Darf nicht in die Hände von Kindern gelangen.*
 Keep this material out of reach of children.
- S3 *Kühl aufbewahren.*
 Store in a cool place.
- S4 *Von Wohnplätzen fernhalten.*
 Store away from living quarters.
- S5 *Unter ... aufbewahren (geeignete Flüssigkeit vom Hersteller anzugeben).*
 Keep contents under . . . (appropriate liquid to be specified by the manufacturer).
- S6 *Unter ... aufbewahren (inertes Gas vom Hersteller anzugeben).*
 Keep under . . . (inert gas to be specified by the manufacturer).
- S7 *Behälter dicht geschlossen halten.*
 Keep container tightly closed.
- S8 *Behälter trocken halten.*
 Keep container dry.
- S9 *Behälter an einem gut gelüfteten Ort aufbewahren.*
 Keep container in a well-ventilated place.
- S12 *Behälter nicht gasdicht verschließen.*
 Do not keep the container sealed.

- S13 *Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.*
Keep away from food, drink, and animal feedstock.
- S14 *Von ... fernhalten (inkompatible Substanzen vom Hersteller anzugeben).*
Keep away from . . . (incompatible materials to be indicated by the manufacturer).
- S15 *Vor Hitze schützen.*
Keep away from heat.
- S16 *Von Zündquellen fernhalten - Nicht rauchen.*
Keep away from sources of ignition - No smoking.
- S17 *Von brennbaren Stoffen fernhalten.*
Keep away from combustible material.
- S18 *Behälter mit Vorsicht öffnen und handhaben.*
Handle and open container with care.
- S20 *Bei der Arbeit nicht essen und trinken.*
When using, do not eat or smoke.
- S21 *Bei der Arbeit nicht rauchen.*
When using, do not smoke.
- S22 *Staub nicht einatmen.*
Avoid breathing dust.
- S23 *Gas/Rauch/Dampf/Aerosol nicht einatmen (geeignete Bezeichnung[en] vom Hersteller anzugeben).*
Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).
- S24 *Berührung mit der Haut vermeiden.*
Avoid contact with skin.
- S25 *Berührung mit den Augen vermeiden.*
Avoid contact with eyes.
- S26 *Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren.*
After contact with eyes, wash immediately and thoroughly with water, and consult a doctor.

- S27 *Beschmutzte, getränkte Kleidung sofort ausziehen.*
Take off immediately all contaminated clothing.
- S28 *Bei Berührung mit der Haut sofort abwaschen mit viel ... (vom Hersteller anzugeben).*
After contact with skin, wash immediately with plenty of . . . (to be specified by the manufacturer).
- S29 *Nicht in die Kanalisation gelangen lassen.*
Do not empty into drains.
- S30 *Niemals Wasser hinzugießen.*
Never add water to this product.
- S33 *Maßnahmen gegen elektrostatische Aufladungen treffen.*
Take precautionary measures against static discharges.
- S35 *Abfälle und Behälter müssen in gesicherter Weise beseitigt werden.*
This material and its container must be disposed of in a safe way.
- S36 *Bei der Arbeit geeignete Schutzkleidung tragen.*
Wear suitable protective clothing.
- S37 *Geeignete Schutzhandschuhe tragen.*
Wear suitable gloves.
- S38 *Bei unzureichender Belüftung Atemschutzgerät anlegen.*
In case of insufficient ventilation, wear suitable respiratory equipment.
- S39 *Schutzbrille/Gesichtsschutz tragen.*
Wear eye/face protection.
- S40 *Fußboden und verunreinigte Gegenstände mit ... reinigen (Material vom Hersteller anzugeben).*
To clean the floor and all objects contaminated by this material, use . . . (to be specified by the manufacturer).
- S41 *Explosions- und Brandgase nicht einatmen.*
In case of fire and/or explosion do not breathe fumes.
- S42 Beim Räuchern/Versprühen geeignetes Atemschutzgerät anlegen (geeignete Bezeichnung[en] vom Hersteller anzugeben).
During fumigation/spraying, wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer).

- S43 *Zum Löschen ... (vom Hersteller anzugeben) verwenden (wenn Wasser die Gefahr erhöht, anfügen: "Kein Wasser verwenden").*
In case of fire, use . . . (indicate in the space the precise type of fire-fighting equipment. If water increases risk, add – "Never use water").
- S45 *Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich dieses Etikett vorzeigen).*
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S46 *Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder Etikett vorzeigen.*
If swallowed, seek medical advice immediately and show this container or label.
- S47 *Nicht bei Temperaturen über ... °C aufbewahren (vom Hersteller anzugeben).*
Keep at temperature not exceeding . . . °C (to be specified by the manufacturer).
- S48 *Feucht halten mit ... (geeignetes Mittel vom Hersteller anzugeben).*
Keep wet with . . . (appropriate material to be specified by the manufacturer).
- S49 *Nur im Originalbehälter aufbewahren.*
Keep only in the original container.
- S50 *Nicht mischen mit ... (vom Hersteller anzugeben).*
Do not mix with . . . (to be specified by the manufacturer).
- S51 *Nur in gut gelüfteten Bereichen verwenden.*
Use only in well-ventilated areas.
- S52 *Nicht großflächig für Wohn- und Aufenthaltsräume zu verwenden.*
Not recommended for interior use on large surface areas.
- S53 *Exposition vermeiden - vor Gebrauch besondere Anweisungen einholen.*
Avoid exposure - obtain special instructions before use.
- S56 *Diesen Stoff und seinen Behälter der Problemabfallentsorgung zuführen.*
Dispose of this material and its container at hazardous or special waste collection point.
- S57 *Zur Vermeidung einer Kontamination der Umwelt geeigneten Behälter verwenden.*
Use appropriate container to avoid environmental contamination.
- S59 *Informationen zur Wiederverwendung/Wiederverwertung beim Hersteller/Lieferanten erfragen.*
Refer to manufacturer/supplier for information on recovery/recycling.

- S60 *Dieser Stoff und sein Behälter sind als gefährlicher Abfall zu entsorgen.*
This material and its container must be disposed of as hazardous waste.
- S61 *Freisetzung in die Umwelt vermeiden. Besondere Anweisungen einholen / Sicherheitsdatenblatt zu Rate ziehen.*
Avoid release to the environment. Refer to special instructions/Safety data sheets.
- S62 *Bei Verschlucken kein Erbrechen herbeiführen. Sofort ärztlichen Rat einholen und Verpackung oder dieses Etikett vorzeigen.*
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- S63 *Bei Unfall durch Einatmen: Verunfallten an die frische Luft bringen und ruhigstellen.*
In case of accident by inhalation: remove casualty to fresh air and keep at rest.
- S64 *Bei Verschlucken Mund mit Wasser ausspülen (nur wenn Verunfallter bei Bewusstsein ist).*
If swallowed, rinse mouth with water (only if the person is conscious).

Kombination der S-Sätze:**Combination of S-Phrases:**

- S1/2 *Unter Verschluß und für Kinder unzugänglich aufbewahren.*
Keep locked up and out of the reach of children.
- S3/7 *Behälter dicht geschlossen halten und an einem kühlen Ort aufbewahren.*
Keep container tightly closed in a cool place.
- S3/9 *Behälter an einem kühlen, gut gelüfteten Ort aufbewahren.*
Keep container in a cool and well-ventilated place.
- S3/9/14 *An einem kühlen, gut gelüfteten Ort, entfernt von ... aufbewahren (die Stoffe, mit denen Kontakt vermieden werden muß, sind vom Hersteller anzugeben).*
Keep in a cool, well-ventilated place away from . . . (incompatible materials to be indicated by the manufacturer).
- S3/9/14/49 *Nur im Originalbehälter an einem kühlen, gut gelüfteten Ort, entfernt von aufbewahren (die Stoffe, mit denen Kontakt vermieden werden muß, sind vom Hersteller anzugeben).*
Keep only in the original container in a cool, well-ventilated place away from . . . (incompatible materials to be indicated by the manufacturer).
- S3/9/49 *Nur im Orginalbehälter an einem kühlen, gut gelüfteten Ort aufbewahren.*
Keep only in the original container in a cool, well-ventilated place.

- S3/14 *An einem kühlen, von ... entfernten Ort aufbewahren (die Stoffe, mit denen Kontakt vermieden werden muß, sind vom Hersteller anzugeben).*
Keep in a cool place away from . . . (incompatible materials to be indicated by the manufacturer).
- S7/8 *Behälter trocken und dicht geschlossen halten.*
Keep container tightly closed and dry.
- S7/9 *Behälter dicht geschlossen an einem gut gelüfteten Ort aufbewahren.*
Keep container tightly closed and in a well-ventilated place.
- S7/47 *Behälter dicht geschlossen und nicht bei Temperaturen über ... °C aufbewahren.*
Keep container tightly closed and at a temperature not exceeding . . . °C (to be specified by the manufacturer).
- S20/21 *Bei der Arbeit nicht essen, trinken, rauchen.*
When using, do not eat, drink or smoke.
- S24/25 *Berührung mit den Augen und der Haut vermeiden.*
Avoid contact with skin and eyes.
- S27/28 *Bei Berührung mit der Haut beschmutzte, getränkte Kleidung sofort ausziehen und sofort mit viel ... abwaschen (vom Hersteller anzugeben).*
Take off immediately all contaminated clothing, after contact with skin, wash immediately with plenty of . . . (to be specified by the manufacturer).
- S29/35 *Nicht in die Kanalisation gelangen lassen; Abfälle und Behälter müssen in gesicherter Weise beseitigt werden.*
Do not empty into drains. This material and its container must be disposed of in a safe way.
- S29/56 *Nicht in die Kanalisation gelangen lassen; diesen Stoff und seinen Behälter der Problemabfallentsorgung zuführen.*
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- S36/37 *Bei der Arbeit geeignete Schutzhandschuhe und Schutzkleidung tragen.*
Wear suitable protective clothing and gloves.
- S36/37/39 *Bei der Arbeit geeignete Schutzkleidung, Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen.*
Wear suitable protective clothing, gloves, and eye/face protection.

- S36/39 *Bei der Arbeit geeignete Schutzkleidung und Schutzbrille/Gesichtsschutz tragen.*
Wear suitable protective clothing and eye/face protection.
- S37/39 *Bei der Arbeit geeignete Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen.*
Wear suitable gloves and eye/face protection.
- S47/49 *Nur im Originalbehälter bei einer Temperatur von nicht über ... °C (vom Hersteller anzugeben) aufbewahren.*
Keep only in the original container at a temperature not exceeding . . . °C (to be specified by the manufacturer).

**Table C5.T7 Additional Requirements for Areas Storing Water Endangering Substances
(Bayern, Hessen, Rheinland-Pfalz)**

		B ¹	H ²	R-P ³
Properties of Storage Areas				
1. General Stability				
1.1	Facilities that store, distribute, or handle water endangering substances must be stable and leak-proof under the operational strains typically expected during their lifetime. They must be constructed and assembled so that displacement, tilting, or shifting, which may pose a threat to the safety and tightness of the facility, is prevented.	X	X	X
2. Location and Inspection				
2.1	Single-walled containers, piping and other facility parts must be located at a minimum distance from walls or other units that allows visual inspections of the container and ensures that leaks are readily detected. If containers, pipelines, and other facility parts are sheathed for purposes such as heat insulation, other provisions must be made to readily detect leaks. These requirements are fulfilled for containers which satisfy the following criteria:	X	X	--
2.1.1	For containers with a height up to 1.5 m, the distance between the container and the containment wall must be at least 0.4 m. Smaller distances shall only be admissible if the area that cannot be visually inspected is monitored with a leak detection device or has a sufficient downward gradient towards an observable area allowing for the immediate detection of leaks.	X	X	--
2.1.2	Transportable containers with a capacity up to 1,000 liters may be installed without adhering to minimum distances if the containment can be visually inspected.	X	X	--
2.1.3	For containers made from plastic placed in secondary containment, a distance of 0.1 m between the container and the containment wall is sufficient under the following conditions: <ul style="list-style-type: none"> • The containment must be made of a corrosion-resistant material. • The height of the containment area must be at least equal to the maximum fill level of the container, less the distance between the container and the containment wall. • The contained area must be continuously monitored with an approved leak detection device. It must be ensured that any release is detected by the leak detection device. A leak detection system is not required if the containment can be easily inspected. This is the case if the containment wall is no higher than 1.5 m, and the distance between the 	X	X	--

		B ¹	H ²	R-P ³
	containment and any other unit is at least 0.4 m.			
2.2	There must be a sufficient distance between the floor and the bottom of the container to detect leaks and to perform a visual inspection of the containment area. The distance is considered sufficient if it corresponds to the requirements of DIN 6623, or fulfills the criteria below. If this distance is not maintained, a leak detection system must be installed.	X	X	--
2.2.1	It is at least equal to 1/50 of the diameter of a cylindrical container, or equal to the length of the shortest edge of the basis of a rectangular container, and	X	X	--
2.2.2	The distance is greater than 0.1 m.	X	X	--

3. Equipment, Safety Devices, Protective Measures				
3.1	Leak detection sensors (Leckagesonde) must detect any potential release of hazardous materials and emit a visual or audio alarm signal if the height of the accidentally released liquid reaches a maximum of 5 cm, measured from the lowest point of the secondary containment.	X	X	X
3.2	Ventilation systems, safety valves, and burst disks (Berstscheiben) must be designed to prevent the build-up of dangerous overpressure or negative pressure in any parts of the facility, particularly in containers and piping. Safety valves and burst disks must have catchment systems for collecting releases.	X	X	X
3.3	Shut-off devices must be easily accessible and easy to operate.	X	X	X
3.4	Automatic safety devices for fires and interruptions in operations (e.g., slide valves, swing valves, gates, or pumps) must have an independent power supply or other additional safeguards to ensure the operation of these devices in the event of power loss.	X	X	X
3.5	Facilities that store, distribute, or handle hazardous substances must be protected against mechanical impairment, especially against collisions.	X	X	--
3.6	Facilities must be constructed, operated, maintained, overhauled and cleaned to ensure leaks are excluded during normal operations and that they are easily detectable in the event of defects. It must be ensured that water endangering substances may not cross the facility boundary in an uncontrolled way. Special response measures must be established for emergencies.	--	X	--
3.7	The following fire protection measures are required:			
3.7.1	In case of fires at facilities that store, distribute, and handle hazardous substances must be designed so that the substances are not released before fire response measures become effective. Materials used for secondary containment must be fire-resistant for a period of at least 30 minutes.	--	X	X

		B ¹	H ²	R-P ³
3.7.2	If the above criterion cannot be complied with, appropriate measures are required to prevent the spread of fires from outside areas to the facility and to prevent fires within the facility itself.	--	X	--
4. Secondary Containment				
4.1	Secondary containment systems should be physically located with corresponding containers. Secondary containment systems that are physically separated from corresponding facilities are permitted, if in the event of a release, it is ensured that hazardous substances are safely directed to the containment.	X	X	X
4.2	Incompatible substances that may react in a way leading to the destruction of the secondary containment, if spilled, must be stored in separate containments.	X	X	X
4.3	The secondary containment surface must safely collect releases from splashing or dripping. Parts of the facility where drip losses cannot be excluded must be provided with separate drip trays.	X	X	X
4.4	Secondary containment made of non-metallic porous materials must be designed and constructed to ensure that hazardous substances entering the contained area may only penetrate containment walls up to two-thirds of their total thickness before response measures become effective. This also applies to joints and seams.	X	X	X
4.5	If various materials with partly unknown properties are handled in contained areas, these areas must be regularly inspected for possible releases and penetration through the floor and walls. If this cannot be reliably assessed, leak detection devices are required.	X	X	X
4.6	Pipes and cable crossings through the containment must be permanently leak-proof.	X	X	X
4.7	If the secondary containment itself is made from a material not sufficiently leak-proof, suitable sealing material must be used. The sealing material must be sufficiently resistant to mechanical, thermal, chemical, and biological strains. It must remain leak-proof throughout its lifetime, be resistant to aging, and correspond to the fire safety class B2 according to DIN 4102. For outdoor uses, the sealing material must be resistant to weathering.	X	X	X
4.8	Properties of sealing material:			
4.8.1	Pastes or liquid sealing materials applied to the surface of secondary containment must adhere to the surface they are applied to after drying and solidification. They must cover cracks in the subsurface after solidification. In multi-layer systems, individual layers must be adhesive.	X	--	X
4.8.2	Synthetic liners or sheathing must be included during construction to ensure they are completely tight. They must be chemically resistant to hydrolysis.	X	--	X
4.9	An impermeable surface coating is required in areas where solid hazardous substances are handled that may have adhesive	X	--	X

		B ¹	H ²	R-P ³
	properties. Secondary containment must be sufficiently sized to collect the total volume of hazardous materials that can be released until response measures become effective. Automatic alarm systems or regular visual inspections are required. These areas must be protected against rain.			
4.10	The secondary containment volume must correspond to the capacity of the installed container. For several containers with a shared secondary containment, the volume of the secondary containment must be 10 percent of the total volume stored in all containers, and at least equal to the volume of the largest container.	X	X	--
4.11	Stormwater in secondary containment structures must be removed when necessary. In uncovered areas, an additional 5 cm must be added to the required height of containment walls. Outlets of secondary containments are permitted if they are connected to a suitable wastewater treatment unit and equipped with a shut-off valve.	X	X	--
4.12	Transport containers and packaging of liquid substances with a content up to 450 liters are considered appropriate for facilities that store, fill, and conduct trans-shipments of hazardous substances if they are provided with secondary containment complying with requirements detailed above. Without secondary containment, they may only be used for this purpose if adherence to regulations on the transport of dangerous goods has been demonstrated to the district authority for each type of container or packaging used.	X	--	--
4.13	In Hessen, secondary containment outlet drains may be permitted by the competent authority if required for the drainage of stormwater and if it is ensured that water endangering substances cannot be discharged through these drains. Containments for POL storage facilities may be provided with outlets to drain stormwater, if they are lockable and associated with a wastewater treatment plant (municipal or on-site wastewater treatment plant, a POL separator is not considered to be sufficient). Stormwater outlets may be permitted for handling facilities.	X	X	X-
4.14	The stability of the secondary containment must be demonstrated in accordance with the guideline on static stability for containment areas for hazardous substances (Standsicherheits - und Brauchbarkeitsnachweise für beschichtete Auffangräume zur Lagerung wassergefährdender Flüssigkeiten, Institut für Bautechnik).	--	X	--
<p>Notes:</p> <p>Water Hazard Class 0 has been abolished.</p> <p>¹B: Bayern ²H: Hessen ³R-P: Rheinland-Pfalz</p>				