

**Environmental Protection Agency****§ 116.4**

located in, on, or under, any land within the United States other than submerged land;

*Otherwise subject to the jurisdiction of the United States* means subject to the jurisdiction of the United States by virtue of United States citizenship, United States vessel documentation or numbering, or as provided for by international agreement to which the United States is a party.

*A discharge in connection with activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, or which may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Fishery Conservation and Management Act of 1976),* means: (1) A discharge into any waters beyond the contiguous zone from any vessel or onshore or offshore facility, which vessel or facility is subject to or is engaged in activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, and (2) any discharge into any waters beyond the contiguous zone which contain, cover, or support any natural resource belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Fishery Conservation and Management Act of 1976).

*Public vessel* means a vessel owned or bareboat-chartered and operated by the

United States, or a State or political subdivision thereof, or by a foreign nation, except when such vessel is engaged in commerce.

*Territorial seas* means the belt of the seas measured from the line of ordinary low water along that portion of the coast which is in direct contact with the open sea and the line marking the seaward limit of inland waters, and extending seaward a distance of 3 miles.

*Vessel* means every description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water other than a public vessel;

[43 FR 10474, Mar. 13, 1978; 43 FR 27533, June 26, 1978, as amended at 44 FR 10266, Feb. 16, 1979; 58 FR 45039, Aug. 25, 1993]

#### **§ 116.4 Designation of hazardous substances.**

The elements and compounds appearing in Tables 116.4 A and B are designated as hazardous substances in accordance with section 311(b)(2)(A) of the Act. This designation includes any isomers and hydrates, as well as any solutions and mixtures containing these substances. Synonyms and Chemical Abstract System (CAS) numbers have been added for convenience of the user only. In case of any disparity the common names shall be considered the designated substance.

TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES

Common name	CAS No.	Synonyms	Isomers	CAS No.
Acetaldehyde .....	75070	Ethanal, ethyl aldehyde, acetic aldehyde .....	.....	.....
Acetic acid .....	64197	Glacial acetic acid, vinegar acid .....	.....	.....
Acetic anhydride .....	108247	Acetic oxide, acetyl oxide .....	.....	.....
Acetone cyanohydrin .....	75865	2-methylacetonitrile, alpha-hydroxyisobutyronitrile.	.....	.....
Acetyl bromide .....	506967	.....	.....	.....
Acetyl chloride .....	79367	.....	.....	.....
Acrolein .....	107028	2-propenal, acrylic aldehyde, acrylaldehyde, acraldehyde.	.....	.....
Acrylonitrile .....	107131	Cyanoethylene, Fumigrain, Ventox, propenonitrile, vinyl cyanide.	.....	.....
Adipic acid .....	124049	Hexanedioic acid .....	.....	.....
Aldrin .....	309002	Octalene, HHDN .....	.....	.....
Allyl alcohol .....	107186	2-propen-1-ol, 1-propenol-3, vinyl carbinol .....	.....	.....
Allyl chloride .....	107051	3-chloropropene, 3-chloropropylene, Chlorallylene.	.....	.....
Aluminum sulfate .....	10043013	Alum .....	.....	.....
Ammonia .....	7664417	.....	.....	.....
Ammonium acetate .....	631618	Acetic acid ammonium, salt .....	.....	.....
Ammonium benzoate .....	1863634	.....	.....	.....
Ammonium bicarbonate .....	1066337	Acid ammonium carbonate, ammonium hydrogen carbonate.	.....	.....
Ammonium bichromate .....	7789095	.....	.....	.....

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Ammonium bifluoride .....	1341497	Acid ammonium fluoride, ammonium hydrogen fluoride.	.....	.....
Ammonium bisulfite .....	10192300	.....	.....	.....
Ammonium carbamate .....	1111780	Ammonium aminoformate .....	.....	.....
Ammonium carbonate .....	506876	.....	.....	.....
Ammonium chloride .....	12125029	Ammonium muriate, sal ammoniac, salmiac, Amchlor.	.....	.....
Ammonium chromate .....	7788989	.....	.....	.....
Ammonium citrate dibasic .....	3012655	Diammonium citrate, citric acid diammonium salt.	.....	.....
Ammonium fluoborate .....	13826830	Ammonium fluoroborate, ammonium borofluoride.	.....	.....
Ammonium fluoride .....	12125018	Neutral ammonium fluoride .....	.....	.....
Ammonium hydroxide .....	1336216	.....	.....	.....
Ammonium oxalate .....	6009707	.....	.....	.....
	5972736	.....	.....	.....
	14258492	.....	.....	.....
Ammonium silicofluoride .....	16919190	Ammonium fluosilicate .....	.....	.....
Ammonium sulfamate .....	7773060	Ammate, AMS, ammonium amidosulfate .....	.....	.....
Ammonium sulfide .....	12135761	.....	.....	.....
Ammonium sulfite .....	10196040	.....	.....	.....
	10192300	.....	.....	.....
Ammonium tartrate .....	3164292	Tartaric acid ammonium salt .....	.....	.....
	14307438	.....	.....	.....
Ammonium thiocyanate .....	1762954	Ammonium rhodanide, ammonium sulfocyanate, ammonium sulfocyanide.	.....	.....
Amyl acetate .....	628637	Amylacetate ester .....	iso- .....	123922
		Pear oil .....	sec- .....	626380
		Banana oil .....	tert- .....	625161
Aniline .....	62533	Aniline oil, phenylamine, aminobenzene, aminophen, kyanol.	.....	.....
Antimony pentachloride .....	7647189	.....	.....	.....
Antimony potassium tartrate .....	28300745	Tartar emetic, tartrated antimony, tartarized antimony, potassium antimonytartrate.	.....	.....
Antimony tribromide .....	7789619	.....	.....	.....
Antimony trichloride .....	10025919	Butter of antimony .....	.....	.....
Antimony trifluoride .....	7783564	Antimony fluoride .....	.....	.....
Antimony trioxide .....	1309644	Diantimony trioxide, flowers of antimony .....	.....	.....
Arsenic disulfide .....	1303328	Red arsenic sulfide .....	.....	.....
Arsenic pentoxide .....	1303282	Arsenic acid anhydride, arsenic oxide .....	.....	.....
Arsenic trichloride .....	7784341	Arsenic chloride, arsenious chloride, arsenous chloride, butter of arsenic.	.....	.....
Arsenic trioxide .....	1327533	Arsenious acid, arsenious oxide, white arsenic	.....	.....
Arsenic trisulfide .....	1303339	Arsenious sulfide, yellow arsenic sulfide .....	.....	.....
Barium cyanide .....	542621	.....	.....	.....
Benzene .....	71432	Cyclohexatriene, benzol .....	.....	.....
Benzoinic acid .....	65850	Benzene carboxylic acid, phenylformic acid, dracylic acid.	.....	.....
Benzonitrile .....	100470	Phenyl cyanide, cyanobenzene .....	.....	.....
Benzoyl chloride .....	98884	Benzene carbonyl chloride .....	.....	.....
Benzyl chloride .....	100447	.....	.....	.....
Beryllium chloride .....	7787475	.....	.....	.....
Beryllium fluoride .....	7787497	.....	.....	.....
Beryllium nitrate .....	7787555	.....	.....	.....
	13597994	.....	.....	.....
Butyl acetate .....	123864	Acetic acid butyl ester .....	iso- .....	110190
			sec- .....	105464
			tert- .....	540885
Butylamine .....	109739	1-aminobutane .....	iso- .....	78819
			sec- .....	513495
			sec- .....	13952846
n/butyl phthalate .....	84742	1,2-benzenedicarboxylic acid, dibutyl ester, dibutyl phthalate.	.....	.....
Butyric acid .....	107926	Butanoic acid, ethylacetic acid .....	iso- .....	79312
Cadmium acetate .....	543908	.....	.....	.....
Cadmium bromide .....	7789426	.....	.....	.....
Cadmium chloride .....	10108642	.....	.....	.....
Calcium arsenate .....	7778441	Tricalcium orthoarsenate .....	.....	.....
Calcium arsenite .....	52740166	.....	.....	.....
Calcium carbide .....	75207	Carbide, acetylenogen .....	.....	.....
Calcium chromate .....	13765190	Calcium chrome yellow, geblin, yellow ultramarine.	.....	.....

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Calcium cyanide .....	592018	.....	.....	.....
Calcium dodecylbenzenesulfonate	26264062	.....	.....	.....
Calcium hypochlorite .....	7778543	.....	.....	.....
Captan .....	133062	Orthocide-406, SR-406, Vancide-89 .....	.....	.....
Carbaryl .....	63252	Sevin .....	.....	.....
Carbofuran .....	1563662	Furadan .....	.....	.....
Carbon disulfide .....	75150	Carbon bisulfide, dithiocarbonic anhydride .....	.....	.....
Carbon tetrachloride .....	56235	Tetrachloromethane Perchloromethane .....	.....	.....
Chlordane .....	57749	Toxiclор, chlordan .....	.....	.....
Chlorine .....	75003	.....	.....	.....
Chlorobenzene .....	108907	Monochlorobenzene, benzene chloride .....	.....	.....
Chloroform .....	67663	Trichloromethane .....	.....	.....
Chlorpyrifos .....	2921882	Dursban .....	.....	.....
Chlorosulfonic acid .....	7790945	Sulfuric chlorhydrin .....	.....	.....
Chromic acetate .....	1066304	.....	.....	.....
Chromic acid .....	11115745	Chromic anhydride, chromium trioxide .....	.....	.....
Chromic sulfate .....	10101538	.....	.....	.....
Chromous chloride .....	10049055	.....	.....	.....
Cobaltous bromide .....	7789437	Cobalt bromide .....	.....	.....
Coabaltous formate .....	544183	Cobalt formate .....	.....	.....
Cobaltous sulfamate .....	14017415	Cobalt sulfamate .....	.....	.....
Coumaphos .....	56724	Co-Ral .....	.....	.....
Cresol .....	1319773	Cresylic acid .....	m- .....	108394
		Hydroxytoluene .....	o- .....	95487
			p- .....	106445
Crotonaldehyde .....	4170303	2-butenal propylene aldehyde .....	.....	.....
Cupric acetate .....	142712	Copper acetate, crystalized verdigris .....	.....	.....
Cupric acetoarsenite .....	12002038	Copper acetoarsenite, copper acetate arsenite, Paris green .....	.....	.....
Cupric chloride .....	7447394	Copper chloride .....	.....	.....
Cupric nitrate .....	3251238	Copper nitrate .....	.....	.....
Cupric oxalate .....	5893663	Copper oxalate .....	.....	.....
Cupric sulfate .....	7758987	Copper sulfate .....	.....	.....
Cupric sulfate, ammoniated .....	10380297	Ammoniated copper sulfate .....	.....	.....
Cupric tartrate .....	815827	Copper tartrate .....	.....	.....
Cyanogen chloride .....	506774	.....	.....	.....
Cyclohexane .....	110827	Hexahydrobenzene, hexamethylene, hexanaphthene .....	.....	.....
2,4-D acid .....	94757	2,4-dichlorophenoxyacetic acid .....	.....	.....
2,4-D ester .....	94111	2,4-dichlorophenoxyacetic acid ester .....	.....	.....
	94791			
	94804			
	1320189			
	1928387			
	1928616			
	1929733			
	2971382			
	25168267			
	53467111			
DDT .....	50293	p,p'-DDT .....	.....	.....
Diazinon .....	333415	Dipofene, Diazitol, Basudin, Spectracide .....	.....	.....
Dicamba .....	1918009	2-methoxy-3,6-dichlorobenzoic acid .....	.....	.....
Dichlobenil .....	1194656	2,6-dichlorobenzonitrile, 2,6-DBN .....	.....	.....
Dichlone .....	117806	Phygon, dichloronaphthoquinone .....	.....	.....
Dichlorobenzene .....	25321226	Di-chloricide .....	Ortho .....	95501
		Paramoth (Para) .....	Para .....	106467
Dichloropropane .....	26638197	Propylene dichloride .....	1,1 .....	78999
			1,2 .....	78875
Dichloropropene .....	26952238	.....	1,3 .....	142289
Dichloropropene-dichloropropane (mixture) .....	8003198	D-D mixture Vidden D .....	1,3 .....	542756
			2,3 .....	78886
2,2-Dichloropropionic acid .....	75990	Dalapon .....	.....	.....
Dichlorvos .....	62737	2,2-dichlorovinyl dimethyl phosphate, Vapona .....	.....	.....
Dicofol .....	115322	Di(p-chlorophenyl)-trichloromethylcarbinol, DTMC, dicofol .....	.....	.....
Die�drin .....	60571	Alvit .....	.....	.....
Diethylamine .....	109897	.....	.....	.....
Dimethylamine .....	124403	.....	.....	.....
Dinitrobenzene (mixed) .....	25154545	Dinitrobenzol .....	m- .....	99650
			o- .....	528290

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Dinitrophenol .....	51285	Aldifen .....	P- ..... (2,5-) ..... (2,4-). ..... (2,6-). ..... 2,4 ..... 2,6 ..... 3,4 .....	100254 329715  573568 121142 606202 610399
Dinitrotoluene .....	25321146	DNT .....	.....	.....
Diquat .....	85007	Aquacide .....	.....	.....
Disulfoton .....	2764729	Dextrone, Reglone, Diquat dibromide .....	.....	.....
Diuron .....	298044	Di-syston .....	.....	.....
Dodecylbenzenesulfonic acid .....	330541	DCMU, DMU .....	.....	.....
Endosulfan .....	27176870	.....	.....	.....
Endrin .....	115297	Thiodan .....	.....	.....
Epichlorohydrin .....	72208	Mendrin, Compound 269 .....	.....	.....
Ethion .....	106898	-chloropropylene oxide .....	.....	.....
Ethylbenzene .....	563122	Nialate, ethyl methylene, phosphorodithioate .....	.....	.....
Ethylenediamine .....	100414	Phenylethane .....	.....	.....
Ethylenediamine .....	107153	1,2-diaminoethane .....	.....	.....
Ethylenediamine-tetraacetic acid (EDTA) .....	60004	Edetic acid, Havidote, (ethylenedinitrilo)-tetraacetic acid .....	.....	.....
Ethylene dibromide .....	106934	1,2-dibromoethane acetylene dibromide sym-dibromoethylene .....	.....	.....
Ethylene dichloride .....	107062	1,2-dichloroethane sym-bichloroethane .....	.....	.....
Ferric ammonium citrate .....	1185575	Ammonium ferric citrate .....	.....	.....
Ferric ammonium oxalate .....	2944674	Ammonium ferric oxalate .....	.....	.....
Ferric chloride .....	5548874	.....	.....	.....
Ferric fluoride .....	7705080	Flores martis, iron trichloride .....	.....	.....
Ferric nitrate .....	7783508	.....	.....	.....
Ferric sulfate .....	10421484	Iron nitrate .....	.....	.....
Ferric sulfate .....	10028225	Ferric persulfate, ferric sesquisulfate, ferric tersulfate .....	.....	.....
Ferrous ammonium sulfate .....	10045893	Mohr's salt, iron ammonium sulfate .....	.....	.....
Ferrous chloride .....	7758943	Iron chloride, iron dichloride, iron protochloride .....	.....	.....
Ferrous sulfate .....	7720787	Green vitriol .....	.....	.....
Formaldehyde .....	7782630	Iron vitriol, iron sulfate, iron protosulfate .....	.....	.....
Formic acid .....	50000	Methyl aldehyde, methanal, formalin .....	.....	.....
Fumaric acid .....	64186	Methanoic acid .....	.....	.....
Fumaric acid .....	110178	Trans-butenedioic acid, trans-1,2-ethylenedicarboxylic acid, boletic acid, allomaleic acid .....	.....	.....
Furfural .....	98011	2-furaldehyde, pyromucic aldehyde .....	.....	.....
Guthion .....	86500	Gusathion, azinphos-methyl .....	.....	.....
Heptachlor .....	76448	Velsicol-104, Drinox, Heptagran .....	.....	.....
Hexachlorocyclopentadiene .....	77474	Perchlorocyclopentadiene .....	.....	.....
Hydrochloric acid .....	7647010	Hydrogen chloride, muriatic acid .....	.....	.....
Hydrofluoric acid .....	7664393	Fluohydric acid .....	.....	.....
Hydrogen cyanide .....	74908	Hydrocyanic acid .....	.....	.....
Hydrogen sulfide .....	7783064	Hydrosulfuric acid sulfur hydride .....	.....	.....
Isoprene .....	78795	2-methyl-1,3-butadiene .....	.....	.....
Isopropanolamine dodecylbenzenesulfonate .....	42504461	.....	.....	.....
Kepone .....	143500	Chlordecone 1,1a,3,3a,4,5,5,5a,5b,6-dechlorooctahydro-1,3,4-metheno-2H-cycllobuta(cd)pentalen-2-one .....	.....	.....
Lead acetate .....	301042	Sugar of lead .....	.....	.....
Lead arsenate .....	7784409	.....	.....	.....
Lead chloride .....	7645252	.....	.....	.....
Lead chloride .....	10102484	.....	.....	.....
Lead fluoroborate .....	7758954	.....	.....	.....
Lead fluoride .....	13814965	Lead fluoroborate .....	.....	.....
Lead iodide .....	7783462	Lead difluoride, plumbous fluoride .....	.....	.....
Lead nitrate .....	10101630	.....	.....	.....
Lead stearate .....	10099748	.....	.....	.....
Lead sulfate .....	7428480	Stearic acid lead salt .....	.....	.....
Lead sulfide .....	1072351	.....	.....	.....
Lead thiocyanate .....	52652592	.....	.....	.....
Lindane .....	7446142	.....	.....	.....
Lithium chromate .....	1314870	Galena .....	.....	.....
Malathion .....	592870	Lead sulfocyanate .....	.....	.....
Lithium chromate .....	58899	Gamma-BHC, gamma-benzene hexachloride .....	.....	.....
Malathion .....	14307358	.....	.....	.....
Malathion .....	121755	Phosphothion .....	.....	.....

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**TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued**

Common name	CAS No.	Synonyms	Isomers	CAS No.
Maleic acid .....	110167	Cis-butenedioic acid, cis-1,2-ethylenedicarboxylic acid, toxic acid.	.....	.....
Maleic anhydride .....	108316	2,5-furandione, cis-butenedioic anhydride, toxic anhydride.	.....	.....
Mercaptodimethyl .....	203657	Mesurol .....	.....	.....
Mercuric cyanide .....	592041	Mercury cyanide .....	.....	.....
Mercuric nitrate .....	10045940	Mercury nitrate, mercury pernitrate .....	.....	.....
Mercuric sulfate .....	7783359	Mercury sulfate, mercury persulfate .....	.....	.....
Mercuric thiocyanate .....	592858	Mercury thiocyanate, mercuric sulfocyanate, mercuric sulfocyanide.	.....	.....
Mercurous nitrate .....	7782867	.....	.....	.....
Mercurous nitrate .....	10415755	Mercury protonitrate .....	.....	.....
Methoxychlor .....	72435	DMDT, methoxy-DDT .....	.....	.....
Methyl mercaptan .....	74931	Methanethiol, mercaptomethane, methyl sulfhydrate, thiomethyl alcohol.	.....	.....
Methyl methacrylate .....	80626	Methacrylic acid methyl ester, methyl-2-methyl-2-propenoate.	.....	.....
Methyl parathion .....	298000	Nitrox-80 .....	.....	.....
Mevinphos .....	7786347	Phosdrin .....	.....	.....
Mexacarbate .....	315184	Zectran .....	.....	.....
Monoethylamine .....	75047	Ethylamine, aminoethane .....	.....	.....
Monomethylamine .....	74895	Methylamine, aminomethane .....	.....	.....
Naled .....	300765	Dibrom .....	.....	.....
Naphthalene .....	91203	White tar, tar camphor, naphthalin .....	.....	.....
Naphthenic acid .....	1338245	Cyclohexanecarboxylic acid, hexahydrobenzoic acid.	.....	.....
Nickel ammonium sulfate .....	15699180	Ammonium nickel sulfate .....	.....	.....
Nickel chloride .....	37211055	Nickelous chloride .....	.....	.....
Nickel hydroxide .....	7718549	Nickelous hydroxide .....	.....	.....
Nickel nitrate .....	12054487	.....	.....	.....
Nickel sulfate .....	14216752	.....	.....	.....
Nitric acid .....	7697372	Nickelous sulfate .....	.....	.....
Nitrobenzene .....	98953	Aqua fortis .....	.....	.....
Nitrogen dioxide .....	10102440	Nitrobenzol, oil of mirbane .....	.....	.....
Nitrophenol (mixed) .....	25154556	Nitrogen tetroxide .....	.....	.....
Nitrotoluene .....	1321126	Mononitrophenol .....	m- ..... o- ..... p- ..... Ortho ..... Meta ..... Para .....	554847 88755 100027 88722 99081 99990
Paraformaldehyde .....	30525894	Paraform, Formagene, Triformol, polymerized formaldehyde, polyoxymethylene.	.....	.....
Parathion .....	56382	DNTP, Niran .....	.....	.....
Pentachlorophenol .....	87865	PCP, Penta .....	.....	.....
Phenol .....	108952	Carbolic acid, phenyl hydroxide, hydroxybenzene, oxybenzene.	.....	.....
Phosgene .....	75445	Diphosgene, carbonyl chloride, chloroformyl chloride.	.....	.....
Phosphoric acid .....	7664382	Orthophosphoric acid .....	.....	.....
Phosphorus .....	7723140	Black phosphorus, red phosphorus, white phosphorus, yellow phosphorus.	.....	.....
Phosphorus oxychloride .....	10025873	Phosphoryl chloride, phosphorus chloride .....	.....	.....
Phosphorus pentasulfide .....	1314803	Phosphorus sulfide, thiophosphoric anhydride, phosphorus persulfide.	.....	.....
Phosphorus trichloride .....	7719122	Phosphorous chloride .....	.....	.....
Polychlorinated biphenyls .....	1336363	PCB, Aroclor, polychlorinated diphenyls .....	.....	.....
Potassium arsenite .....	7784410	.....	.....	.....
Potassium arsenite .....	10124502	Potassium metaarsenite .....	.....	.....
Potassium bichromate .....	7778509	Potassium dichromate .....	.....	.....
Potassium chromate .....	7789006	.....	.....	.....
Potassium cyanide .....	151508	.....	.....	.....
Potassium hydroxide .....	1310583	Potassium hydrate, caustic potash, potassa .....	.....	.....
Potassium permanganate .....	7722647	Chameleon mineral .....	.....	.....
Propargite .....	2312358	Omite .....	.....	.....
Propionic acid .....	79094	Propanoic acid, methylacetic acid, ethylformic acid.	.....	.....
Propionic anhydride .....	123626	Propanoic anhydride, methylacetic anhydride ..	.....	.....
Propylene oxide .....	75569	Propene oxide .....	.....	.....
Pyrethrins .....	121299	Pyrethrin I .....	.....	.....
Quinoline .....	121211	Pyrethrin II .....	.....	.....
Quinoline .....	91225	1-benzazine, benzo(b)pyridine, leucomine, chinoleine, leucol.	.....	.....

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Resorcinol .....	108463	Resorcin, 1,3-benzenediol, meta-dihydroxybenzene.	.....	.....
Selenium oxide .....	7446084	Selenium dioxide .....	.....	.....
Silver nitrate .....	7761888	Nitric acid silver (1+) salt lunar caustic .....	.....	.....
Sodium .....	7440235	Natrium .....	.....	.....
Sodium arsenate .....	7631892	Disodium arsenate .....	.....	.....
Sodium arsenite .....	7784465	Sodium metaarsenite .....	.....	.....
Sodium bichromate .....	10588019	Sodium dichromate .....	.....	.....
Sodium bifluoride .....	133831	.....	.....	.....
Sodium bisulfite .....	7631905	Sodium acid sulfite, sodium hydrogen sulfite .....	.....	.....
Sodium chromate .....	7775113	.....	.....	.....
Sodium cyanide .....	143339	.....	.....	.....
Sodium dodecylbenzene-sulfonate .....	25155300	.....	.....	.....
Sodium fluoride .....	7681494	Villaumite .....	.....	.....
Sodium hydrosulfide .....	16721805	Sodium hydrogen sulfide .....	.....	.....
Sodium hydroxide .....	1310732	Caustic soda, soda lye, sodium hydrate .....	.....	.....
Sodium hypochlorite .....	7681529	Bleach .....	.....	.....
Sodium methylate .....	124414	Sodium methoxide .....	.....	.....
Sodium nitrite .....	7632000	.....	.....	.....
Sodium phosphate, dibasic .....	7558794	.....	.....	.....
	10039324	.....	.....	.....
	10140655	.....	.....	.....
Sodium phosphate, tribasic .....	7785844	.....	.....	.....
	7601549	.....	.....	.....
	10101890	.....	.....	.....
	10361894	.....	.....	.....
	7758294	.....	.....	.....
	10124568	.....	.....	.....
Sodium selenite .....	10102188	.....	.....	.....
	7782823	.....	.....	.....
Strontium chromate .....	7789062	.....	.....	.....
Strychnine .....	57249	.....	.....	.....
Stryrene .....	100425	Vinylbenzene, phenylethylene, styrol, styrene, cinnamene, cinnamol.	.....	.....
Sulfuric acid .....	7664939	Oil of vitriol, oleum .....	.....	.....
Sulfur monochloride .....	12771083	Sulfur chloride .....	.....	.....
2,4,5-T acid .....	93765	2,4,5-trichlorophenoxyacetic acid .....	.....	.....
2,4,5-T amines .....	6369966	Acetic acid (2,4,5-trichlorophenoxy)-compound with N,N-dimethylmethanamine (1:1).	.....	.....
	6369977	Acetic acid (2,4,5-trichlorophenoxy)-compound with N-methylmethanamine (1:1).	.....	.....
	1319728	Acetic acid (2,4,5-trichlorophenoxy)-compound with 1-amino-2-propanol (1:1).	.....	.....
	3813147	Acetic acid (2,4,5-trichlorophenoxy)-compound with 2,2'-nitriilotris [ethanol] (1:1).	.....	.....
2,4,5-T esters .....	2545597	2,4,5-trichlorophenoxyacetic esters .....	.....	.....
	93798	.....	.....	.....
	61792072	.....	.....	.....
	1928478	.....	.....	.....
2,4,5-T salts .....	25168154	.....	.....	.....
	13560991	Acetic acid (2,4,5-trichlorophenoxy)-sodium salt.	.....	.....
TDE .....	72548	DDD .....	.....	.....
2,4,5-TP acid .....	93721	Propanoic acid 2-(2,4,5-trichlorophenoxy) .....	.....	.....
2,4,5-TP esters .....	32534955	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-, isoctyl ester.	.....	.....
Tetraethyl lead .....	78002	Lead tetraethyl, TEL .....	.....	.....
Tetraethyl pyrophosphate .....	107493	TEPP .....	.....	.....
Thallium sulfate .....	10031591	.....	.....	.....
	7446186	.....	.....	.....
Toluene .....	108883	Toluol, methylbenzene, phenylmethane, Methacide.	.....	.....
Toxaphene .....	8001352	Camphchlor .....	.....	.....
Trichlorfon .....	52686	Dipterex .....	.....	.....
Trichlorethylene .....	79016	Ethylene trichloride .....	.....	15950660
Trichlorophenol .....	25167822	Collunosol, Dowicide 2 or 2S, Omal, Phenachlor.	(2,3,4-) .....	933788
			(2,3,5-) .....	933755
			(2,3,6-) .....	95954
			(2,4,5-) .....	88062
			(2,4,6-) .....	609198
			(3,4,5-) .....	.....

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**TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued**

Common name	CAS No.	Synonyms	Isomers	CAS No.
Triethanolamine dodecylbenzenesulfonate.	27323417	.....	.....	.....
Triethylamine .....	121448	.....	.....	.....
Trimethylamine .....	75503	TMA .....	.....	.....
Uranyl acetate .....	541093	.....	.....	.....
Uranyl nitrate .....	10102064	.....	.....	.....
	36478769	.....	.....	.....
Vanadium pentoxide .....	1314621	Vanadix anhydride, vanadic acid anhydride .....	.....	.....
Vanadyl sulfate .....	27774136	Vanadix sulfate, vanadium sulfate .....	.....	.....
Vinyl acetate .....	108054	Acetic acid ethylene ether .....	.....	.....
Vinyldene chloride .....	75354	1,1-dichlorethylene .....	.....	.....
Xylene (mixed) .....	1330207	Dimethylbenzene .....	m- .....	108383
		Xylool .....	o- .....	95476
			p- .....	106423
Xylenol .....	13000716	Dimethylphenol, hydroxydimethylbenzene .....	.....	.....
Zinc acetate .....	557346	.....	.....	.....
Zinc ammonium chloride .....	14639975	.....	.....	.....
	14639986	.....	.....	.....
	52628258	.....	.....	.....
Zinc borate .....	1332076	.....	.....	.....
Zinc bromide .....	7699458	.....	.....	.....
Zinc carbonate .....	3486359	.....	.....	.....
Zinc chloride .....	7646857	Butter of zinc .....	.....	.....
Zinc cyanide .....	557211	.....	.....	.....
Zinc fluoride .....	7783495	.....	.....	.....
Zinc formate .....	557415	.....	.....	.....
Zinc hydrosulfite .....	7779864	.....	.....	.....
Zinc nitrate .....	7779886	.....	.....	.....
Zinc phenolsulfonate .....	127822	Zinc sulfocarboilate .....	.....	.....
Zinc phosphide .....	1314847	.....	.....	.....
Zinc silicofluoride .....	16871719	Zinc fluorosilicate .....	.....	.....
Zinc sulfate .....	7733020	White vitriol, zinc vitriol, white copperas .....	.....	.....
Zirconium nitrate .....	13746899	.....	.....	.....
Zirconium potassium fluoride .....	16923958	.....	.....	.....
Zirconium sulfate .....	14644612	Disulfatozirconic acid .....	.....	.....
Zirconium tetrachloride	10026116	.....	.....	.....

**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER**

CAS No.	Common name
50000 .....	Formaldehyde
50293 .....	DDT
51285 .....	2,4-Dinitrophenol
52686 .....	Trichlorfon
56382 .....	Parathion
56724 .....	Coumaphos
57249 .....	Strychnine
57749 .....	Chlordane
58899 .....	Lindane
60004 .....	Ethylenediaminetetraacetic acid (EDTA)
60571 .....	Dieldrin
62533 .....	Aniline
62737 .....	Dichlorvos
63252 .....	Carbaryl
64186 .....	Formic acid
64197 .....	Acetic acid
65850 .....	Benzoic acid
67663 .....	Chlorform
71432 .....	Benzene
72208 .....	Endrin
72435 .....	Methoxychlor
72548 .....	TDE
74895 .....	Monomethylamine
74908 .....	Hydrogen cyanide
74931 .....	Methyl mercaptan
75047 .....	Monoethylamine
75070 .....	Acetaldehyde

**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued**

CAS No.	Common name
75150 .....	Carbon disulfide
75207 .....	Calcium carbide
75445 .....	Phosgene
75503 .....	Trimethylamine
75649 .....	tert-Butylamine
75865 .....	Acetone cyanohydrin
75990 .....	2,2-Dichloropropionic acid
76448 .....	Heptachlor
78002 .....	Tetraethyl lead
78795 .....	Isoprene
78819 .....	iso-Butylamine
79094 .....	Propionic acid
79312 .....	iso-Butyric acid
79367 .....	Acetyl chloride
80626 .....	Methyl methacrylate
85007 .....	Diquat
86500 .....	Guthion
87865 .....	Pentachlorophenol
88755 .....	o-Nitrophenol
91203 .....	Naphthalene
91225 .....	Quinoline
93765 .....	2,4,5-T acid
93798 .....	2,4,5-T ester
94111 .....	2,4-D ester
94757 .....	2,4-D acid
94791 .....	2,4-D ester
94804 .....	2,4-D Butyl ester
95476 .....	o-Xylene

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TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued

CAS No.	Common name
95487 .....	o-Cresol
98011 .....	Furfural
98884 .....	Benzoyl chloride
98953 .....	Nitrobenzene
99650 .....	m-Dinitrobenzene
100027 .....	p-Nitrophenol
100254 .....	p-Dinitrobenzene
100414 .....	Ethylbenzene
100425 .....	Styrene
100447 .....	Benzyl chloride
100470 .....	Benzonitrile
105464 .....	sec-Butyl acetate
106423 .....	p-Xylene
106445 .....	p-Cresol
107028 .....	Acrolein
107051 .....	Allyl chloride
107131 .....	Acrylonitrile
107153 .....	Ethylenediamine
107186 .....	Allyl alcohol
107493 .....	Tetraethyl pyrophosphate
107926 .....	n-Butyric acid
108054 .....	Vinyl acetate
108247 .....	Acetic anhydride
108316 .....	Maleic anhydride
108383 .....	m-Xylene
108394 .....	m-Cresol
108463 .....	Resorcinol
108883 .....	Toluene
108907 .....	Chlorobenzene
108952 .....	Phenol
109739 .....	n-Butylamine
109897 .....	Diethylamine
110167 .....	Maleic acid
110178 .....	Fumaric acid
110190 .....	iso-Butyl acetate
110827 .....	Cyclohexane
115297 .....	Endosulfan
115322 .....	Dicofol
117806 .....	Dichlone
121211 .....	Pyrethrin
121299 .....	Pyrethrin
121448 .....	Triethylamine
121755 .....	Malathion
123626 .....	Propionic anhydride
123864 .....	n-Butyl acetate
123922 .....	iso-Amyl acetate
124403 .....	Dimethylamine
124414 .....	Sodium methylate
127822 .....	Zinc phenolsulfonate
133062 .....	Captan
142712 .....	Cupric acetate
143339 .....	Sodium cyanide
151508 .....	Potassium cyanide
298000 .....	Methyl parathion
298044 .....	Disulfoton
300765 .....	Naled
301042 .....	Lead acetate
309002 .....	Aldrin
315184 .....	Mexacarbate
329715 .....	2,5-Dinitrophenol
330541 .....	Diuron
333415 .....	Diazinon
506774 .....	Cyanogen chloride
506876 .....	Ammonium carbonate
506967 .....	Acetyl bromide
513495 .....	sec-Butylamine
528290 .....	o-Dinitrobenzene
540885 .....	tert-Butyl acetate
541093 .....	Uranyl acetate
542621 .....	Barium cyanide
543908 .....	Cadmium acetate

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TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued

CAS No.	Common name
544183 .....	Cobaltous formate
554847 .....	m-Nitrophenol
557211 .....	Zinc cyanide
557346 .....	Zinc acetate
557415 .....	Zinc formate
563122 .....	Ethion
573568 .....	2,6-Dinitrophenol
592018 .....	Calcium cyanide
592041 .....	Mercuric cyanide
592858 .....	Mercuric thiocyanate
592870 .....	Lead thiocyanate
625161 .....	tert-Amyl acetate
626380 .....	sec-Amyl acetate
628637 .....	n-Amyl acetate
631618 .....	Ammonium acetate
815827 .....	Cupric tartrate
1066304 .....	Chromic acetate
1066337 .....	Ammonium bicarbonate
1072351 .....	Lead stearate
1111780 .....	Ammonium carbamate
1185575 .....	Ferric ammonium citrate
1194656 .....	Dichlobenil
1300716 .....	Xylenol
1303282 .....	Arsenic pentoxide
1303328 .....	Arsenic disulfide
1303339 .....	Arsenic trisulfide
1309644 .....	Antimony trioxide
1310583 .....	Potassium hydroxide
1310732 .....	Sodium hydroxide
1314621 .....	Vanadium pentoxide
1314803 .....	Phosphorus pentasulfide
1314847 .....	Zinc phosphide
1314870 .....	Lead sulfide
1319773 .....	Cresol (mixed)
1320189 .....	2,4-D ester
1327533 .....	Arsenic trioxide
1330207 .....	Xylene
1332076 .....	Zinc borate
1333831 .....	Sodium bifluoride
1336216 .....	Ammonium hydroxide
1336363 .....	Polychlorinated biphenyls
1338245 .....	Naphthenic acid
1341497 .....	Ammonium bifluoride
1762954 .....	Ammonium thiocyanate
1863634 .....	Ammonium benzoate
1918009 .....	Dicamba
1928387 .....	2,4-D esters
1928478 .....	2,4,5-T ester
1928616 .....	2,4-D ester
1929733 .....	2,4-D ester
2545597 .....	2,4,5-T ester
2764729 .....	Diquat
2921882 .....	Chlorpyrifos
2944674 .....	Ferric ammonium oxalate
2971382 .....	2,4-D ester
3012655 .....	Ammonium citrate, dibasic
3164292 .....	Ammonium tartrate
3251238 .....	Cupric nitrate
3486359 .....	Zinc carbonate
5893663 .....	Cupric oxalate
5972736 .....	Ammonium oxalate
6009707 .....	Ammonium oxalate
6369966 .....	2,4,5-T ester
7428480 .....	Lead stearate
7440235 .....	Sodium
7446084 .....	Selenium oxide
7446142 .....	Lead sulfate
7447394 .....	Cupric chloride
7558794 .....	Sodium phosphate, dibasic
7601549 .....	Sodium phosphate, tribasic
7631892 .....	Sodium arsenate

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**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued**

CAS No.	Common name
7631905 .....	Sodium bisulfite
763200 .....	Sodium nitrite
7645252 .....	Lead arsenate
7646857 .....	Zinc chloride
7647010 .....	Hydrochloric acid
7647189 .....	Antimony pentachloride
7664382 .....	Phosphoric acid
7664393 .....	Hydrofluoric acid
7664417 .....	Ammonia
7664939 .....	Sulfuric acid
7681494 .....	Sodium fluoride
7681529 .....	Sodium hypochlorite
7697372 .....	Nitric acid
7699458 .....	Zinc bromide
7705080 .....	Ferric chloride
7718549 .....	Nickel chloride
7719122 .....	Phosphorus trichloride
7720787 .....	Ferrous sulfate
7722647 .....	Potassium permanganate
7723140 .....	Phosphorus
7733020 .....	Zinc sulfate
7758294 .....	Sodium phosphate, tribasic
7758943 .....	Ferrous chloride
7758954 .....	Lead chloride
7758987 .....	Cupric sulfate
7773060 .....	Ammonium sulfamate
7775113 .....	Sodium chromate
7778441 .....	Calcium arsenate
7778509 .....	Potassium bichromate
7778543 .....	Calcium hypochlorite
7779864 .....	Zinc hydrosulfite
7779886 .....	Zinc nitrate
7782505 .....	Chlorine
7782630 .....	Ferrous sulfate
7782823 .....	Sodium selenite
7782867 .....	Mercurous nitrate
7783359 .....	Mercuric sulfate
7783462 .....	Lead fluoride
7783495 .....	Zinc fluoride
7783508 .....	Ferric fluoride
7783564 .....	Antimony trifluoride
7784341 .....	Arsenic trichloride
7784409 .....	Lead arsenate
7784410 .....	Potassium arsenate
7784465 .....	Sodium arsenite
7785844 .....	Sodium phosphate, tribasic
7786347 .....	Meviphos
7786814 .....	Nickel sulfate
7787475 .....	Beryllium chloride
7787497 .....	Beryllium fluoride
7787555 .....	Beryllium nitrate
7788989 .....	Ammonium chromate
7789006 .....	Potassium chromate
7789062 .....	Strontium chromate
7789095 .....	Ammonium bichromate
7789426 .....	Cadmium bromide
7789437 .....	Cobaltous bromide
7789619 .....	Antimony tribromide
7790945 .....	Chlorosulfonic acid
8001352 .....	Toxaphene
10022705 .....	Sodium hypochlorite
10025873 .....	Phosphorus oxychloride
10025919 .....	Antimony trichloride
10026116 .....	Zirconium tetrachloride
10028225 .....	Ferric sulfate
10028247 .....	Sodium phosphate, dibasic
10039324 .....	Sodium phosphate, dibasic
10043013 .....	Aluminum sulfate
10045893 .....	Ferrous ammonium sulfate
10045940 .....	Mercuric nitrate
10049055 .....	Chromous chloride

**TABLE 116.4B—LIST OF HAZARDOUS SUBSTANCES BY CAS NUMBER—Continued**

CAS No.	Common name
10099748 .....	Lead nitrate
10101538 .....	Chromic sulfate
10101630 .....	Lead iodide
10101890 .....	Sodium phosphate, tribasic
10102064 .....	Uranyl nitrate
10102188 .....	Sodium selenite
10102440 .....	Nitrogen dioxide
10102484 .....	Lead arsenate
10108642 .....	Cadmium chloride
10124502 .....	Potassium arsenite
10124568 .....	Sodium phosphate, tribasic
10140655 .....	Sodium phosphate, dibasic
10192300 .....	Ammonium bisulfite
10196040 .....	Ammonium sulfite
10361894 .....	Sodium phosphate, tribasic
10380297 .....	Cupric sulfate, ammoniated
10415755 .....	Mercurous nitrate
10421484 .....	Ferric nitrate
10588019 .....	Sodium bichromate
11115745 .....	Chromic acid
12002038 .....	Cupric acetoarsenite
12054487 .....	Nickel hydroxide
12125018 .....	Ammonium fluoride
12125029 .....	Ammonium chloride
12135761 .....	Ammonium sulfide
12771083 .....	Sulfur chloride
13597994 .....	Beryllium nitrate
13746899 .....	Zirconium nitrate
13765190 .....	Calcium chromate
13814965 .....	Lead fluoborate
13826830 .....	Ammonium fluoborate
13952846 .....	sec-Butylamine
14017415 .....	Cobaltous sulfamate
14216752 .....	Nickel nitrate
14258492 .....	Ammonium oxalate
14307358 .....	Lithium chromate
14307438 .....	Ammonium tartrate
14639975 .....	Zinc ammonium chloride
14639986 .....	Zinc ammonium chloride
14644612 .....	Zirconium sulfate
15699180 .....	Nickel ammonium sulfate
16721805 .....	Sodium hydrosulfide
16871719 .....	Zinc silicofluoride
16919190 .....	Ammonium silicofluoride
16923958 .....	Zirconium potassium fluoride
25154545 .....	Dinitrobenzene
25154556 .....	Nitrophenol
25155300 .....	Sodium dodecylbenzenesulfonate
25167822 .....	Trichlorophenol
25168154 .....	2,4,5-T ester
25168267 .....	2,4-D ester
26264062 .....	Calcium dodecylbenzenesulfonate
27176870 .....	Dodecylbenzenesulfonic acid
27323417 .....	Triethanolamine
27774136 .....	dodecylbenzenesulfonate
28300745 .....	Vanadyl sulfate
30525894 .....	Antimony potassium tartrate
36478769 .....	Paraformaldehyde
37211055 .....	Uranyl nitrate
42504461 .....	Nickel chloride
52628258 .....	Dodecylbenzenesulfonate
52740166 .....	isopropanolamine
53467111 .....	Zinc ammonium chloride
55488874 .....	Calcium arsenite
61792072 .....	2,4-D ester
	Ferric ammonium oxalate
	2,4,5-T ester

## Part 117

[43 FR 10474, Mar. 13, 1978; 43 FR 27533, June 26, 1978, as amended at 44 FR 10268, Feb. 16, 1979; 44 FR 65400, Nov. 13, 1979; 44 FR 66602, Nov. 20, 1979; 54 FR 33482, Aug. 14, 1989]

## PART 117—DETERMINATION OF REPORTABLE QUANTITIES FOR HAZARDOUS SUBSTANCES

### Subpart A—General Provisions

Sec.

117.1 Definitions.

117.2 Abbreviations.

117.3 Determination of reportable quantities.

### Subpart B—Applicability

117.11 General applicability.

117.12 Applicability to discharges from facilities with NPDES permits.

117.13 Applicability to discharges from publicly owned treatment works and their users.

117.14 Demonstration projects.

### Subpart C—Notice of Discharge of a Reportable Quantity

117.21 Notice.

117.23 Liabilities for removal.

AUTHORITY: Secs. 311 and 501(a), Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.), ("the Act") and Executive Order 11735, superseded by Executive Order 12777, 56 FR 54757.

SOURCE: 44 FR 50776, Aug. 29, 1979, unless otherwise noted.

### Subpart A—General Provisions

#### § 117.1 Definitions.

As used in this part, all terms shall have the meanings stated in 40 CFR part 116.

(a) *Reportable quantities* means quantities that may be harmful as set forth in §117.3, the discharge of which is a violation of section 311(b)(3) and requires notice as set forth in §117.21.

(b) *Administrator* means the Administrator of the Environmental Protection Agency ("EPA").

(c) *Mobile source* means any vehicle, rolling stock, or other means of transportation which contains or carries a reportable quantity of a hazardous substance.

(d) *Public record* means the NPDES permit application or the NPDES permit itself and the materials comprising

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the administrative record for the permit decision specified in §124.18 of this chapter.

(e) *National Pretreatment Standard* or *Pretreatment Standard* means any regulation containing pollutant discharge limits promulgated by the EPA in accordance with section 307 (b) and (c) of the Act, which applies to industrial users of a publicly owned treatment works. It further means any State or local pretreatment requirement applicable to a discharge and which is incorporated into a permit issued to a publicly owned treatment works under section 402 of the Act.

(f) *Publicly Owned Treatment Works* or *POTW* means a treatment works as defined by section 212 of the Act, which is owned by a State or municipality (as defined by section 502(4) of the Act). This definition includes any sewers that convey wastewater to such a treatment works, but does not include pipes, sewers or other conveyances not connected to a facility providing treatment. The term also means the municipality as defined in section 502(4) of the Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.

(g) *Remove* or *removal* refers to removal of the oil or hazardous substances from the water and shoreline or the taking of such other actions as may be necessary to minimize or mitigate damage to the public health or welfare, including, but not limited to, fish, shellfish, wildlife, and public and private property, shorelines, and beaches.

(h) *Contiguous zone* means the entire zone established by the United States under Article 24 of the Convention on the Territorial Sea and Contiguous Zone.

(i) *Navigable waters* means "waters of the United States, including the territorial seas." This term includes:

(1) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;

(2) Interstate waters, including interstate wetlands;

(3) All other waters such as intra-state lakes, rivers, streams, (including