

interstate travelers for recreational or other purposes; and

(ii) Intrastate lakes, rivers, streams, and wetlands from which fish or shellfish are or could be taken and sold in interstate commerce; and

(iii) Intrastate lakes, rivers, streams, and wetlands which are utilized for industrial purposes by industries in interstate commerce.

Navigable waters do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA.

*Offshore facility* means any facility of any kind located in, on, or under, any of the navigable waters of the United States, and any facility of any kind which is subject to the jurisdiction of the United States and is located in, on, or under any other waters, other than a vessel or a public vessel;

*Onshore facility* means any facility (including, but not limited to, motor vehicles and rolling stock) of any kind 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 on-

shore 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-methylactonitrile, alpha-hydroxyisobutyronitrile.		

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Acetyl bromide .....	506967			
Acetyl chloride .....	79367			
Acrolein .....	107028	2-propenal, acrylic aldehyde, acrylaldehyde, acraldehyde.		
Acrylonitrile .....	107131	Cyanoethylene, Fumigrain, Ventox, propeneitrile, 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			
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.		
Amly 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, tartarated 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.		
Benzoic acid .....	65850	Benzenecarboxylic acid, phenylformic acid, dracylic acid.		
Benzonitrile .....	100470	Phenyl cyanide, cyanobenzene.		
Benzoyl chloride .....	98884	Benzenecarbonyl chloride.		
Benzyl chloride .....	100447			
Beryllium chloride .....	7787475			
Beryllium fluoride .....	7787497			
Beryllium nitrate .....	7787555			

TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.	
Butyl acetate .....	13597994	Acetic acid butyl ester .....	iso- .....	110190	
	123864		sec- .....	105464	
			tert- .....	540885	
Butylamine .....	109739	1-aminobutane .....	iso- .....	78819	
			sec- .....	513495	
			sec- .....	13952846	
			tert- .....	75649	
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.			
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	Toxichlor, chlordan.			
Chlorine .....	75003				
Chlorobenzene .....	108907	Monochlorobenzene, benzene chloride.			
Chloroform .....	67663	Trichloromethane.			
Chlorpyrifos .....	2921882	Dursban.			
Chlorosulfonic acid .....	7790945	Sulfuric chlorohydrin.			
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	
			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				
	50293		p,p'-DDT.		
	333415		Dipofene, Diazitol, Basudin, Spectracide.		
	1918009		2-methoxy-3,6-dichlorobenzoic acid.		
	1194656		2,6-dichlorobenzonitrile, 2,6-DBN.		

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Dichlone	117806	Phygon, dichloronaphthoquinone.		
Dichlorobenzene	25321226	Di-chloride	Ortho	95501
		Paramoth (Para)	Para	106467
Dichloropropane	26638197	Propylene dichloride	1,1	78999
			1,2	78875
			1,3	142289
Dichloropropene	26952238		1,3	542756
			2,3	78886
Dichloropropene-dichloropropane (mixture).	8003198	D-D mixture Vidden D.		
2,2-Dichloropropionic acid	75990	Dalapon.		
Dichlorvos	62737	2,2-dichlorovinyl dimethyl phosphate, Vapona.		
Dicofol	115322	Di(p-chlorophenyl)-trichloromethylcarbinol, DTMC, dicofol.		
Dieldrin	60571	Alvit.		
Diethylamine	109897			
Dimethylamine	124403			
Dinitrobenzene (mixed)	25154545	Dinitrobenzol	m-	99650
			o-	528290
			p-	100254
Dinitrophenol	51285	Aldifen	(2,5-)	329715
			(2,4-)	
			(2,6-)	573568
Dinitrotoluene	25321146	DNT	2,4	121142
			2,6	606202
			3,4	610399
Diquat	85007	Aquacide.		
	2764729	Dextrone, Reglone, Diquat dibromide.		
Disulfoton	298044	Di-syston.		
Diuron	330541	DCMU, DMU.		
Dodecylbenzenesulfonic acid	27176870			
Endosulfan	115297	Thiodan.		
Endrin	72208	Mendrin, Compound 269.		
Epichlorohydrin	106898	-chloropropylene oxide.		
Ethion	563122	Nialate, ethyl methylene, phosphorodithioate.		
Ethylbenzene	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.		
	55488874			
Ferric chloride	7705080	Flores martis, iron trichloride.		
Ferric fluoride	7783508			
Ferric nitrate	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.		
	7782630	Iron vitriol, iron sulfate, iron protosulfate.		
Formaldehyde	50000	Methyl aldehyde, methanal, formalin.		
Formic 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	42504461			
dodecylbenzenesulfonate.				
Kepone	143500	Chlordecone 1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-1,3,4-metheno-2H-cyclobuta(cd)pentalen-2-one.		

TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.	
Lead acetate .....	301042	Sugar of lead.			
Lead arsenate .....	7784409				
	7645252				
	10102484				
Lead chloride .....	7758954				
Lead fluoroborate .....	13814965				Lead fluoroborate.
Lead fluoride .....	7783462				Lead difluoride, plumbous fluoride.
Lead iodide .....	10101630				
Lead nitrate .....	10099748				
Lead stearate .....	7428480				Stearic acid lead salt.
	1072351				
	52652592				
Lead sulfate .....	7446142	Galena.			
Lead sulfide .....	1314870				
Lead thiocyanate .....	592870	Lead sulfocyanate.			
Lindane .....	58899	Gamma-BHC, gamma-benzene hexachloride.			
Lithium chromate .....	14307358	Phosphothion.			
Malathion .....	121755				
Maleic acid .....	110167				Cis-butenedioic acid, cis-1,2-ethylenedicarboxylic acid, toxic acid.
Maleic anhydride .....	108316	2,5-furandione, cis-butenedioic anhydride, toxic anhydride.			
Mercaptodimethur .....	203657	Mesuroil.			
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	Mercury protonitrate.			
	10415755				
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.			
	7718549				
Nickel hydroxide .....	12054487				
Nickel nitrate .....	14216752	Nickelous sulfate.			
Nickel sulfate .....	7786814				
Nitric acid .....	7697372	Aqua fortis.			
Nitrobenzene .....	98953	Nitrobenzol, oil of mirbane.			
Nitrogen dioxide .....	10102440	Nitrogen tetroxide.			
Nitrophenol (mixed) .....	25154556	Mononitrophenol .....	m- .....	554847	
			o- .....	88755	
			p- .....	100027	
			Ortho .....	88722	
			Meta .....	99081	
			Para .....	99990	
Nitrotoluene .....	1321126				
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	Phosphoric sulfide, thiophosphoric anhydride, phosphorus persulfide.			

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TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Phosphorus trichloride .....	7719122	Phosphorous chloride.		
Polychlorinated biphenyls .....	1336363	PCB, Aroclor, polychlorinated diphenyls.		
Potassium arsenate .....	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.		
	121211	Pyrethrin II.		
Quinoline .....	91225	1-benzazine, benzo(b)pyridine, leuocoline, chinoleine, leucol.		
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 .....	1333831			
Sodium bisulfite .....	7631905	Sodium acid sulfite, sodium hydrogen sulfite.		
Sodium chromate .....	7775113			
Sodium cyanide .....	143339			
Sodium dodecylbenzene-sulfonate .....	25155300			
Sodium fluoride .....	7681494	Villiumite.		
Sodium hydrosulfide .....	16721805	Sodium hydrogen sulfide.		
Sodium hydroxide .....	1310732	Caustic soda, soda lye, sodium hydrate.		
Sodium hypochlorite .....	7681529	Bleach.		
	10022705			
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			
Styrene .....	100425	Vinylbenzene, phenylethylene, styrol, styrolene, 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 2,2'2"-nitritoltris [ethanol] (1:1).		
2,4,5-T esters .....	2545597	2,4,5-trichlorophenoxyacetic esters.		
	93798			
	61792072			
	1928478			
	25168154			
2,4,5-T salts .....	13560991	Acetic acid (2,4,5-trichlorophenoxy)-sodium salt.		
TDE .....	72548	DDD.		

TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
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)-, isooctyl ester.		
Tetraethyl lead .....	78002	Lead tetraethyl, TEL.		
Tetraethyl pyrophosphate .....	107493	TEPP.		
Thallium sulfate .....	10031591			
	7446186			
Toluene .....	108883	Toluol, methylbenzene, phenylmethane, Methacide.		
Toxaphene .....	8001352	Camphechlor.		
Trichlorfon .....	52686	Dipterex .....		
		Dylox.		
Trichlorethylene .....	79016	Ethylene trichloride.		
Trichlorophenol .....	25167822	Collunosol, Dowicide 2 or 2S, Omal, Phenachlor.	(2,3,4-) .....	15950660
			(2,3,5-) .....	933788
			(2,3,6-) .....	933755
			(2,4,5-) .....	95954
			(2,4,6-) .....	88062
			(3,4,5-) .....	609198
Triethanolamine dodecylbenzenesulfonate.	27323417			
Triethylamine .....	121448	TMA.		
Trimethylamine .....	75503			
Uranyl acetate .....	541093			
Uranyl nitrate .....	10102064			
	36478769			
Vanadium pentoxide .....	1314621	Vanadic anhydride, vanadic acid anhydride.		
Vanadyl sulfate .....	27774136	Vanadic sulfate, vanadium sulfate.		
Vinyl acetate .....	108054	Acetic acid ethylene ether.		
Vinylidene chloride .....	75354	1,1-dichloroethylene.		
		1,1-dichloroethene.		
Xylene (mixed) .....	1330207	Dimethylbenzene .....	m- .....	108383
		Xylol .....	o- .....	95476
			p- .....	106423
Xylenol .....	1300716	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 sulfocarbolate.		
Zinc phosphide .....	1314847			
Zinc silicofluoride .....	16871719	Zinc fluosilicate.		
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

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

CAS No.	Common name
60004 .....	Ethylenediaminetetraacetic acid (EDTA)
60571 .....	Dieldrin
62533 .....	Aniline
62737 .....	Dichlorvos
63252 .....	Carbaryl
64186 .....	Formic acid
64197 .....	Acetic acid
65850 .....	Benzoic acid

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

CAS No.	Common name
67663	Chloroform
71432	Benzene
72208	Endrin
72435	Methoxychlor
72548	TDE
74895	Monomethylamine
74908	Hydrogen cyanide
74931	Methyl mercaptan
75047	Monoethylamine
75070	Acetaldehyde
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
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

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

CAS No.	Common name
110178	Fumaric acid
110190	iso-Butyl acetate
110827	Cyclohexane
115297	Endosulfan
115322	Dicofol
117806	Dichione
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
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



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

CAS No.	Common name
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
7631905	Sodium bisulfite
7632000	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

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

CAS No.	Common name
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	Mevinphos
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
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

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

CAS No.	Common name
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
	dodecylbenzenesulfonate
27774136 .....	Vanadyl sulfate
28300745 .....	Antimony potassium tartrate
30525894 .....	Paraformaldehyde
36478769 .....	Uranyl nitrate
37211055 .....	Nickel chloride
42504461 .....	Dodecylbenzenesulfonate
	isopropanolamine
52628258 .....	Zinc ammonium chloride
52740166 .....	Calcium arsenite
53467111 .....	2,4-D ester
55488874 .....	Ferric ammonium oxalate
61792072 .....	2,4,5-T ester

[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 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