

## **Environmental Protection Agency**

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potentially responsible parties to undertake response actions.

(e) Because state and local public safety organizations would normally be the first government representatives at the scene of a discharge or release, they are expected to initiate public safety measures that are necessary to protect the public health and welfare and that are consistent with containment and cleanup requirements in the NCP, and are responsible for directing evacuations pursuant to existing state or local procedures.

[59 FR 47473, Sept. 15, 1994]

### **PART 302—DESIGNATION, REPORTABLE QUANTITIES, AND NOTIFICATION**

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AUTHORITY: 42 U.S.C. 9602, 9603, and 9604; 33 U.S.C. 1321 and 1361.

SOURCE: 50 FR 13474, Apr. 4, 1985, unless otherwise noted.

#### **§ 302.1 Applicability.**

This regulation designates under section 102(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (“the Act”) those substances in the statutes referred to in section 101(14) of the Act, identifies reportable quantities for these substances, and sets forth the notification requirements for releases of these substances. This regulation also sets forth reportable quantities for hazardous substances designated under section 311(b)(2)(A) of the Clean Water Act.

#### **§ 302.2 [Reserved]**

#### **§ 302.3 Definitions.**

As used in this part, all terms shall have the meaning set forth below:

*The Act, CERCLA, or Superfund* means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Pub. L. 96-510);

*Administrator* means the Administrator of the United States Environmental Protection Agency (“EPA”);

*Animal waste* means manure (feces, urine, and other excrement produced by livestock), digestive emissions, and urea. The definition includes animal waste when mixed or commingled with bedding, compost, feed, soil and other typical materials found with animal waste.

*Consumer product* shall have the meaning stated in 15 U.S.C. 2052;

*Environment* means (1) the navigable waters, the waters of the contiguous zone, and the ocean waters of which the natural resources are under the exclusive management authority of the United States under the Fishery Conservation and Management Act of 1976, and (2) any other surface water, ground water, drinking water supply, land surface or subsurface strata, or ambient air within the United States or under the jurisdiction of the United States;

*Facility* means (1) any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or publicly owned treatment works), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft, or (2) any site or area where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located; but does not include any consumer product in consumer use or any vessel;

*Farm* means a facility on a tract of land devoted to the production of crops or raising of animals, including fish, which produced and sold, or normally would have produced and sold, \$1,000 or more of agricultural products during a year.

*Hazardous substance* means any substance designated pursuant to 40 CFR part 302;

*Hazardous waste* shall have the meaning provided in 40 CFR 261.3;

*Navigable waters or navigable waters of the United States* means waters of the United States, including the territorial seas;

*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

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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 or non-navigable waters within the United States;

*Person* means an individual, firm, corporation, association, partnership, consortium, joint venture, commercial entity, United States Government, State, municipality, commission, political subdivision of a State, or any interstate body;

*Release* means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant), but excludes:

(1) Any release which results in exposure to persons solely within a workplace, with respect to a claim which such persons may assert against the employer of such persons;

(2) Emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine;

(3) Release of source, byproduct, or special nuclear material from a nuclear incident, as those terms are defined in the Atomic Energy Act of 1954, if such release is subject to requirements with respect to financial protection established by the Nuclear Regulatory Commission under section 170 of such Act, or for the purposes of section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act or any other response action, any release of source, byproduct, or special nuclear material from any processing site designated under section 102(a)(1) or 302(a) of the Uranium Mill Tailings Radiation Control Act of 1978; and

(4) The normal application of fertilizer;

*Reportable quantity* ("RQ") means that quantity, as set forth in this part, the release of which requires notification pursuant to this part;

*United States* include the several States of the United States, the Dis-

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trict of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the United States Virgin Islands, the Commonwealth of the Northern Marianas, and any other territory or possession over which the United States has jurisdiction; and

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

[50 FR 13474, Apr. 4, 1985, as amended at 67 FR 45321, July 9, 2002; 73 FR 76959, Dec. 18, 2008]

### § 302.4 Designation of hazardous substances.

(a) *Listed hazardous substances.* The elements and compounds and hazardous wastes appearing in table 302.4 are designated as hazardous substances under section 102(a) of the Act.

(b) *Unlisted hazardous substances.* A solid waste, as defined in 40 CFR 261.2, which is not excluded from regulation as a hazardous waste under 40 CFR 261.4(b), is a hazardous substance under section 101(14) of the Act if it exhibits any of the characteristics identified in 40 CFR 261.20 through 261.24.

NOTE: The numbers under the column headed "CASRN" are the Chemical Abstracts Service Registry Numbers for each hazardous substance. The "Statutory Code" column indicates the statutory source for designating each substance as a CERCLA hazardous substance: "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act, "2" indicates that the source is section 307(a) of the Clean Water Act, "3" indicates that the source is section 112 of the Clean Air Act, and "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA). The "RCRA Waste Number" column provides the waste identification numbers assigned to various substances by RCRA regulations. The "Pounds (kg)" column provides the reportable quantity adjustment for each hazardous substance in pounds and kilograms. Appendix A to § 302.4, which lists CERCLA hazardous substances in sequential order by CASRN, provides a per-substance grouping of regulatory synonyms (*i.e.*, names by which each hazardous substance is identified in other statutes and their implementing regulations).

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES**

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
A2213 .....	30558431	4	U394	5000 (2270)
Acenaphthene .....	83-32-9	2		100 (45.4)
Acenaphthylene .....	208-96-8	2		5000 (2270)
Acetaldehyde .....	75-07-0	1,3,4	U001	1000 (454)
Acetaldehyde, chloro- .....	107-20-0	4	P023	1000 (454)
Acetaldehyde, trichloro- .....	75-87-6	4	U034	5000 (2270)
Acetamide .....	60-35-5	3		100 (45.4)
Acetamide, N-(aminothioxomethyl)- .....	591-08-2	4	P002	1000 (454)
Acetamide, N-(4-ethoxyphenyl)- .....	62-44-2	4	U187	100 (45.4)
Acetamide, N-9H-fluoren-2-yl- .....	53-96-3	3,4	U005	1 (0.454)
Acetamide, 2-fluoro- .....	640-19-7	4	P057	100 (45.4)
Acetic acid .....	64-19-7	1		5000 (2270)
Acetic acid, (2,4-dichlorophenoxy)-, salts & esters .....	94-75-7	1,3,4	U240	100 (45.4)
Acetic acid, ethyl ester .....	141-78-6	4	U112	5000 (2270)
Acetic acid, fluoro-, sodium salt .....	62-74-8	4	P058	10 (4.54)
Acetic acid, lead(2+) salt .....	301-04-2	1,4	U144	10 (4.54)
Acetic acid, thallium(1+) salt .....	563-68-8	4	U214	100 (45.4)
Acetic acid, (2,4,5-trichlorophenoxy)- .....	93-76-5	1,4	See F027	1000 (454)
Acetic anhydride .....	108-24-7	1		5000 (2270)
Acetone .....	67-64-1	4	U002	5000 (2270)
Acetone cyanohydrin .....	75-86-5	1,4	P069	10 (4.54)
Acetonitrile .....	75-05-8	3,4	U003	5000 (2270)
Acetophenone .....	98-86-2	3,4	U004	5000 (2270)
2-Acetylaminofluorene .....	53-96-3	3,4	U005	1 (0.454)
Acetyl bromide .....	506-96-7	1		5000 (2270)
Acetyl chloride .....	75-36-5	1,4	U006	5000 (2270)
1-Acetyl-2-thiourea .....	591-08-2	4	P002	1000 (454)
Acrolein .....	107-02-8	1,2,3,4	P003	1 (0.454)
Acrylamide .....	79-06-1	3,4	U007	5000 (2270)
Acrylic acid .....	79-10-7	3,4	U008	5000 (2270)
Acrylonitrile .....	107-13-1	1,2,3,4	U009	100 (45.4)
Adipic acid .....	124-04-9	1		5000 (2270)
Aldicarb .....	116-06-3	4	P070	1 (0.454)
Aldicarb sulfone .....	1646884	4	P203	100 (45.4)
Aldrin .....	309-00-2	1,2,4	P004	1 (0.454)
Allyl alcohol .....	107-18-6	1,4	P005	100 (45.4)
Allyl chloride .....	107-05-1	1,3		1000 (454)
Aluminum phosphide .....	20859-73-8	4	P006	100 (45.4)
Aluminum sulfate .....	10043-01-3	1		5000 (2270)
4-Aminobiphenyl .....	92-67-1	3		1 (0.454)
5-(Aminomethyl)-3-isoxazolol .....	2763-96-4	4	P007	1000 (454)
4-Aminopyridine .....	504-24-5	4	P008	1000 (454)
Amitrole .....	61-82-5	4	U011	10 (4.54)
Ammonia .....	7664-41-7	1		100 (45.4)
Ammonium acetate .....	631-61-8	1		5000 (2270)
Ammonium benzoate .....	1863-63-4	1		5000 (2270)
Ammonium bicarbonate .....	1066-33-7	1		5000 (2270)
Ammonium bichromate .....	7789-09-5	1		10 (4.54)
Ammonium bifluoride .....	1341-49-7	1		100 (45.4)
Ammonium bisulfite .....	10192-30-0	1		5000 (2270)
Ammonium carbamate .....	1111-78-0	1		5000 (2270)
Ammonium carbonate .....	506-87-6	1		5000 (2270)
Ammonium chloride .....	12125-02-9	1		5000 (2270)
Ammonium chromate .....	7788-98-9	1		10 (4.54)
Ammonium citrate, dibasic .....	3012-65-5	1		5000 (2270)
Ammonium fluoroborate .....	13826-83-0	1		5000 (2270)
Ammonium fluoride .....	12125-01-8	1		100 (45.4)
Ammonium hydroxide .....	1336-21-6	1		1000 (454)
Ammonium oxalate .....	6009-70-7	1		5000 (2270)
	5972-73-6			
	14258-49-2			
Ammonium picrate .....	131-74-8	4	P009	10 (4.54)
Ammonium silicofluoride .....	16919-19-0	1		1000 (454)
Ammonium sulfamate .....	7773-06-0	1		5000 (2270)
Ammonium sulfide .....	12135-76-1	1		100 (45.4)
Ammonium sulfite .....	10196-04-0	1		5000 (2270)
Ammonium tartrate .....	14307-43-8	1		5000 (2270)
	3164-29-2			
Ammonium thiocyanate .....	1762-95-4	1		5000 (2270)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (kg)
Ammonium vanadate .....	7803-55-6	4	P119	1000 (454)
Amyl acetate .....	628-63-7	1		5000 (2270)
iso-Amyl acetate .....	123-92-2			
sec-Amyl acetate .....	626-38-0			
tert-Amyl acetate .....	625-16-1			
Aniline .....	62-53-3	1,3,4	U012	5000 (2270)
o-Anisidine .....	90-04-0	3		100 (45.4)
Anthracene .....	120-12-7	2		5000 (2270)
Antimony†† .....	7440-36-0	2		5000 (2270)
ANTIMONY AND COMPOUNDS .....	N.A.	2,3		**
Antimony Compounds .....	N.A.	2,3		**
Antimony pentachloride .....	7647-18-9	1		1000 (454)
Antimony potassium tartrate .....	28300-74-5	1		100 (45.4)
Antimony tribromide .....	7789-61-9	1		1000 (454)
Antimony trichloride .....	10025-91-9	1		1000 (454)
Antimony trifluoride .....	7783-56-4	1		1000 (454)
Antimony trioxide .....	1309-64-4	1		1000 (454)
Argentate(1-), bis(cyano-C)-, potassium .....	506-61-6	4	P099	1 (0.454)
Aroclor 1016 .....	12674-11-2	1,2,3		1 (0.454)
Aroclor 1221 .....	11104-28-2	1,2,3		1 (0.454)
Aroclor 1232 .....	11141-16-5	1,2,3		1 (0.454)
Aroclor 1242 .....	53469-21-9	1,2,3		1 (0.454)
Aroclor 1248 .....	12672-29-6	1,2,3		1 (0.454)
Aroclor 1254 .....	11097-69-1	1,2,3		1 (0.454)
Aroclor 1260 .....	11096-82-5	1,2,3		1 (0.454)
Aroclors .....	1336-36-3	1,2,3		1 (0.454)
Arsenict†† .....	7440-38-2	2,3		1 (0.454)
Arsenic acid H3AsO4 .....	7778-39-4	4	P010	1 (0.454)
ARSENIC AND COMPOUNDS .....	N.A.	2,3		**
Arsenic Compounds (inorganic including arsine) .....	N.A.	2,3		**
Arsenic disulfide .....	1303-32-8	1		1 (0.454)
Arsenic oxide As2O3 .....	1327-53-3	1,4	P012	1 (0.454)
Arsenic oxide As2O5 .....	1303-28-2	1,4	P011	1 (0.454)
Arsenic pentoxide .....	1303-28-2	1,4	P011	1 (0.454)
Arsenic trichloride .....	7784-34-1	1		1 (0.454)
Arsenic trioxide .....	1327-53-3	1,4	P012	1 (0.454)
Arsenic trisulfide .....	1303-33-9	1		1 (0.454)
Arsine, diethyl- .....	692-42-2	4	P038	1 (0.454)
Arsinic acid, dimethyl- .....	75-60-5	4	U136	1 (0.454)
Arsonous dichloride, phenyl- .....	696-28-6	4	P036	1 (0.454)
Asbestos††† .....	1332-21-4	2,3		1 (0.454)
Auramine .....	492-80-8	4	U014	100 (45.4)
Azaserine .....	115-02-6	4	U015	1 (0.454)
Aziridine .....	151-56-4	3,4	P054	1 (0.454)
Aziridine, 2-methyl- .....	75-55-8	3,4	P067	1 (0.454)
Azirino[2',3':4]pyrrolo[1,2-ajindole-4,7-dione, 6-amino-8-[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-[1aS-(1alpha,8beta,8alpha,8beta)]- .....	50-07-7	4	U010	10 (4.54)
Barban .....	101279	4	U280	10 (4.54)
Barium cyanide .....	542-62-1	1,4	P013	10 (4.54)
Bendiocarb .....	22781233	4	U278	100 (45.4)
Bendiocarb phenol .....	22961826	4	U364	1000 (454)
Benomyl .....	17804352	4	U271	10 (4.54)
Benz[[aceanthrylene, 1,2-dihydro-3-methyl- .....	56-49-5	4	U157	10 (4.54)
Benz[c]acridine .....	225-51-4	4	U016	100 (45.4)
Benzal chloride .....	98-87-3	4	U017	5000 (2270)
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2propynyl)- .....	23950-58-5	4	U192	5000 (2270)
Benz[a]anthracene .....	56-55-3	2,4	U018	10 (4.54)
1,2-Benzanthracene .....	56-55-3	2,4	U018	10 (4.54)
Benz[a]anthracene, 7,12-dimethyl- .....	57-97-6	4	U094	1 (0.454)
Benzenamine .....	62-53-3	1,3,4	U012	5000 (2270)
Benzenamine, 4,4'-carbonimidoylbis (N,N dimethyl- .....	492-80-8	4	U014	100 (45.4)
Benzenamine, 4-chloro- .....	106-47-8	4	P024	1000 (454)
Benzenamine, 4-chloro-2-methyl-, hydrochloride .....	3165-93-3	4	U049	100 (45.4)
Benzenamine, N,N-dimethyl-4-(phenylazo)- .....	60-11-7	3,4	U093	10 (4.54)
Benzenamine, 2-methyl- .....	95-53-4	3,4	U328	100 (45.4)
Benzenamine, 4-methyl- .....	106-49-0	4	U353	100 (45.4)
Benzenamine, 4,4'-methylenebis [2-chloro- .....	101-14-4	3,4	U158	10 (4.54)

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 TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Benzenamine, 2-methyl-,hydrochloride .....	636-21-5	4	U222	100 (45.4)
Benzenamine, 2-methyl-5-nitro- .....	99-55-8	4	U181	100 (45.4)
Benzenamine, 4-nitro- .....	100-01-6	4	P077	5000 (2270)
Benzene <sup>a</sup> .....	71-43-2	1,2,3,4	U019	10 (4.54)
Benzeneacetic acid, 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -hydroxy-, ethyl ester.	510-15-6	3,4	U038	10 (4.54)
Benzene, 1-bromo-4-phenoxy- .....	101-55-3	2,4	U030	100 (45.4)
Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]- .....	305-03-3	4	U035	10 (4.54)
Benzene, chloro- .....	108-90-7	1,2,3,4	U037	100 (45.4)
Benzene, (chloromethyl)- .....	100-44-7	1,3,4	P028	100 (45.4)
Benzenediamine, ar-methyl- .....	95-80-7	3,4	U221	10 (4.54)
	496-72-0			
	823-40-5			
	25376-45-8			
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester .....	117-81-7	2,3,4	U028	100 (45.4)
1,2-Benzenedicarboxylic acid, dibutyl ester .....	84-74-2	1,2,3,4	U069	10 (4.54)
1,2-Benzenedicarboxylic acid, diethyl ester .....	84-66-2	2,4	U088	1000 (454)
1,2-Benzenedicarboxylic acid, dimethyl ester .....	131-11-3	2,3,4	U102	5000 (2270)
1,2-Benzenedicarboxylic acid, dioctyl ester .....	117-84-0	2,4	U107	5000 (2270)
Benzene, 1,2-dichloro- .....	95-50-1	1,2,4	U070	100 (45.4)
Benzene, 1,3-dichloro- .....	541-73-1	2,4	U071	100 (45.4)
Benzene, 1,4-dichloro- .....	106-46-7	1,2,3,4	U072	100 (45.4)
Benzene, 1,1'-(2,2-dichloroethylidene) bis[4-chloro- .....	72-54-8	1,2,4	U060	1 (0.454)
Benzene, (dichloromethyl)- .....	98-87-3	4	U017	5000 (2270)
Benzene, 1,3-diisocyanatomethyl- .....	91-08-7	3,4	U223	100 (45.4)
	584-84-9			
	26471-62-5			
Benzene, dimethyl- .....	1330-20-7	1,3,4	U239	100 (45.4)
1,3-Benzenediol .....	108-46-3	1,4	U201	5000 (2270)
1,2-Benzenediol,4-[1-hydroxy-2-(methyl amino)ethyl]- .....	51-43-4	4	P042	1000 (454)
Benzeneethanamine, alpha,alpha-dimethyl- .....	122-09-8	4	P046	5000 (2270)
Benzene, hexachloro- .....	118-74-1	2,3,4	U127	10 (4.54)
Benzene, hexahydro- .....	110-82-7	1,4	U056	1000 (454)
Benzene, methyl- .....	108-88-3	1,2,3,4	U220	1000 (454)
Benzene, 1-methyl-2,4-dinitro- .....	121-14-2	1,2,3,4	U105	10 (4.54)
Benzene, 2-methyl-1,3-dinitro- .....	606-20-2	1,2,4	U106	100 (45.4)
Benzene, (1-methylethyl)- .....	98-82-8	3,4	U055	5000 (2270)
Benzene, nitro- .....	98-95-3	1,2,3,4	U169	1000 (454)
Benzene, pentachloro- .....	608-93-5	4	U183	10 (4.54)
Benzene, pentachloronitro- .....	82-68-8	3,4	U185	100 (45.4)
Benzenesulfonic acid chloride .....	98-09-9	4	U020	100 (45.4)
Benzene,1,2,4,5-tetrachloro- .....	95-94-3	4	U207	5000 (2270)
Benzenethiol .....	108-98-5	4	P014	100 (45.4)
Benzene,1,1'-(2,2,2-trichloroethylidene) bis[4-chloro- .....	50-29-3	1,2,4	U061	1 (0.454)
Benzene,1,1'-(2,2,2-trichloroethylidene) bis[4-methoxy- .....	72-43-5	1,3,4	U247	1 (0.454)
Benzene, (trichloromethyl)- .....	98-07-7	3,4	U023	10 (4.54)
Benzene, 1,3,5-trinitro- .....	99-35-4	4	U234	10 (4.54)
Benzidine .....	92-87-5	2,3,4	U021	1 (0.454)
1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts .....	81-07-2	4	U202	100 (45.4)
Benz[a]anthracene .....	56-55-3	2,4	U018	10 (4.54)
1,3-Benzodioxole, 5-(1-propenyl)-1 .....	120-58-1	4	U141	100 (45.4)
1,3-Benzodioxole, 5-(2-propenyl)- .....	94-59-7	4	U203	100 (45.4)
1,3-Benzodioxole-4-ol, 2,2-dimethyl- .....	94-58-6	4	U090	10 (4.54)
1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate ....	22961826	4	U364	1000 (454)
1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate ....	22781233	4	U278	100 (45.4)
Benzo[b]fluoranthene .....	205-99-2	2		1 (0.454)
Benzo(k)fluoranthene .....	207-08-9	2		5000 (2270)
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl- .....	1563388	4	U367	10 (4.54)
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.	1563-66-2	1,4	P127	10 (4.54)
Benzoic acid .....	65-85-0	1		5000 (2270)
Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1).	57647	4	P188	100 (45.4)
Benzonitrile .....	100-47-0	1		5000 (2270)
Benzo[rst]pentaphene .....	189-55-9	4	U064	10 (4.54)
Benzo[ghi]perylene .....	191-24-2	2		5000 (2270)
2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts.	81-81-2	4	P001	100 (45.4)
			U248	

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (kg)
Benzo[a]pyrene .....	50-32-8	2,4	U022	1 (0.454)
3,4-Benzopyrene .....	50-32-8	2,4	U022	1 (0.454)
p-Benzozuione .....	106-51-4	3,4	U197	10 (4.54)
Benzotrichloride .....	98-07-7	3,4	U023	10 (4.54)
Benzoyl chloride .....	98-88-4	1		1000 (454)
Benzyl chloride .....	100-44-7	1,3,4	P028	100 (4.54)
Beryllium †† .....	7440-41-7	2,3,4	P015	10 (4.54) **
<b>BERYLLIUM AND COMPOUNDS</b> .....	N.A.	2,3		
Beryllium chloride .....	7787-47-5	1		1 (0.454) **
Beryllium compounds .....	N.A.	2,3		
Beryllium fluoride .....	7787-49-7	1		1 (0.454)
Beryllium nitrate .....	13597-99-4	1		1 (0.454)
Beryllium powder †† .....	7787-55-5			
alpha-BHC .....	7440-41-7	2,3,4	P015	10 (4.54)
beta-BHC .....	319-84-6	2		10 (4.54)
delta-BHC .....	319-85-7	2		1 (0.454)
gamma-BHC .....	319-86-8	2		1 (0.454)
2,2'-Bioxirane .....	58-89-9	1,2,3,4	U129	1 (0.454)
Biphenyl .....	1464-53-5	4	U085	10 (4.54)
[1,1'-Biphenyl]-4,4'-diamine .....	92-87-5	2,3,4	U021	1 (0.454)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro- .....	91-94-1	2,3,4	U073	1 (0.454)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethoxy- .....	119-90-4	3,4	U091	100 (45.4)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethyl- .....	119-93-7	3,4	U095	10 (4.54)
Bis(2-chloroethoxy) methane .....	111-91-1	2,4	U024	1000 (454)
Bis(2-chloroethyl) ether .....	111-44-4	2,3,4	U025	10 (4.54)
Bis(chloromethyl) ether .....	542-88-1	2,3,4	P016	10 (4.54)
Bis(2-ethylhexyl) phthalate .....	117-81-7	3,4	U028	100 (45.4)
Bromacetone .....	598-31-2	4	P017	1000 (454)
Bromoform .....	75-25-2	2,3,4	U225	100 (4.54)
Bromomethane .....	74-83-9	2,3,4	U029	1000 (454)
4-Bromophenyl phenyl ether .....	101-55-3	2,4	U030	100 (4.54)
Brucine .....	357-57-3	4	P018	100 (4.54)
1,3-Butadiene .....	106-99-0	3		10 (4.54)
1,3-Butadiene, 1,1,2,3,4,4-hexachloro- .....	87-68-3	2,3,4	U128	1 (0.454)
1-Butanamine, N-butyl-N-nitroso- .....	924-16-3	4	U172	10 (4.54)
1-Butanol .....	71-36-3	4	U031	5000 (2270)
2-Butanone .....	78-93-3	3,4	U159	5000 (2270)
2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[(methylamino)carbonyl] oxime.	39196-18-4	4	P045	100 (4.54)
2-Butanone peroxide .....	1338-23-4	4	U160	10 (4.54)
2-Butenal .....	123-73-9	1,4	U053	100 (4.54)
2-Butene, 1,4-dichloro- .....	4170-30-3			
2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy] methyl]-2,3,5,7a-tetrahydro-1H-pyrolizin-1-yl ester, [1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-.	764-41-0	4	U074	1 (0.454)
2-Butene, 303-34-4 .....	764-41-0	4	U143	10 (4.54)
Butyl acetate .....	123-86-4	1		5000 (2270)
iso-Butyl acetate .....	110-19-0			
sec-Butyl acetate .....	105-46-4			
tert-Butyl acetate .....	540-88-5			
n-Butyl alcohol .....	71-36-3	4	U031	5000 (2270)
Butylamine .....	109-73-9	1		1000 (454)
iso-Butylamine .....	78-81-9			
sec-Butylamine .....	513-49-5			
tert-Butylamine .....	13952-84-6			
Butyl benzyl phthalate .....	75-64-9			
n-Butyl phthalate .....	85-68-7	2		100 (45.4)
Butyric acid .....	84-74-2	1,2,3,4	U069	10 (4.54)
iso-Butyric acid .....	107-92-6	1		5000 (2270)
Cacodylic acid .....	79-31-2			
Cadmium †† .....	75-60-5	4	U136	1 (0.454)
Cadmium acetate .....	7440-43-9	2		10 (4.54)
Cadmium bromide .....	543-90-8	1		10 (4.54) **
CADMIUM AND COMPOUNDS .....	N.A.	2,3		
Cadmium chloride .....	7789-42-6	1		10 (4.54)
Cadmium compounds .....	10108-64-2	1		10 (4.54) **
Cadmium compounds .....	N.A.	2,3		

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 TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Calcium arsenate .....	7778-44-1	1		1 (0.454)
Calcium arsenite .....	52740-16-6	1		1 (0.454)
Calcium carbide .....	75-20-7	1		10 (4.54)
Calcium chromate .....	13765-19-0	1,4	U032	10 (4.54)
Calcium cyanamide .....	156-62-7	3		1000 (454)
Calcium cyanide Ca(CN)2 .....	592-01-8	1,4	P021	10 (4.54)
Calcium dodecylbenzenesulfonate .....	26264-06-2	1		1000 (454)
Calcium hypochlorite .....	7778-54-3	1		10 (4.54)
Captan .....	133-06-2	1,3		10 (4.54)
Carbamic acid, 1H-benzimidazol-2-yl, methyl ester .....	10605217	4	U372	10 (4.54)
Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-methyl ester.	17804352	4	U271	10 (4.54)
Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester	101279	4	U280	10 (4.54)
Carbamic acid, [(dibutylamino)-thio]methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester.	55285148	4	P189	1000 (454)
Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester.	644644	4	P191	1 (0.454)
Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester.	119380	4	P192	100 (45.4)
Carbamic acid, ethyl ester .....	51-79-6	3,4	U238	100 (45.4)
Carbamic acid, methyl-, 3-methylphenyl ester .....	1129415	4	P190	1000 (454)
Carbamic acid, methylnitroso-, ethyl ester .....	615-53-2	4	U178	1 (0.454)
Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester.	23564058	4	U409	10 (4.54)
Carbamic acid, phenyl-, 1-methylethyl ester .....	122429	4	U373	1000 (454)
Carbamic chloride, dimethyl- .....	79-44-7	3,4	U097	1 (0.454)
Carbamodithioic acid, 1,2-ethanediylibis-, salts & esters .....	111-54-6	4	U114	5000 (2270)
Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester.	2303-16-4	4	U062	100 (45.4)
Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester.	2303175	4	U389	100 (45.4)
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester .....	52888809	4	U387	5000 (2270)
Carbaryl .....	63-25-2	1,3,4	U279	100 (45.4)
Carbendazim .....	10605217	4	U372	10 (4.54)
Carbofuran .....	1563-66-2	1,4	P127	10 (4.54)
Carbofuran phenol .....	1563388	4	U367	10 (4.54)
Carbon disulfide .....	75-15-0	1,3,4	P022	100 (45.4)
Carbonic acid, dithallium(1+) salt .....	6533-73-9	4	U215	100 (45.4)
Carbonic dichloride .....	75-44-5	1,3,4	P095	10 (4.54)
Carbonic difluoride .....	353-50-4	4	U033	1000 (454)
Carbonochloridic acid, methyl ester .....	79-22-1	4	U156	1000 (454)
Carbon oxyfluoride .....	353-50-4	4	U033	1000 (454)
Carbon tetrachloride .....	56-23-5	1,2,3,4	U211	10 (4.54)
Carbonyl sulfide .....	463-58-1	3		100 (45.4)
Carbosulfan .....	55285148	4	P189	1000 (454)
Catechol .....	120-80-9	3		100 (45.4)
Chloral .....	75-87-6	4	U034	5000 (2270)
Chloramben .....	133-90-4	3		100 (45.4)
Chlorambucil .....	305-03-3	4	U035	10 (4.54)
Chlordane .....	57-74-9	1,2,3,4	U036	1 (0.454)
Chlordane, alpha & gamma isomers .....	57-74-9	1,2,3,4	U036	1 (0.454)
CHLORDANE (TECHNICAL MIXTURE AND METABOLITES).	57-74-9	1,2,3,4	U036	1 (0.454)
CHLORINATED BENZENES .....	N.A.	2		**
Chlorinated camphene .....	8001-35-2	1,2,3,4	P123	1 (0.454)
CHLORINATED ETHANES .....	N.A.	2		**
CHLORINATED NAPHTHALENE .....	N.A.	2		**
CHLORINATED PHENOLS .....	N.A.	2		**
Chlorine .....	7782-50-5	1,3		10 (4.54)
Chlornaphazine .....	494-03-1	4	U026	100 (45.4)
Chloroacetaldehyde .....	107-20-0	4	P023	1000 (454)
Chloroacetic acid .....	79-11-8	3		100 (45.4)
2-Chloroacetophenone .....	532-27-4	3		100 (45.4)
CHLOROALKYL ETHERS .....	N.A.	2		**
p-Chloroaniline .....	106-47-8	4	P024	1000 (454)
Chlorobenzene .....	108-90-7	1,2,3,4	U037	100 (45.4)
Chlorobenzilate .....	510-15-6	3,4	U038	10 (4.54)
p-Chloro-m-cresol .....	59-50-7	2,4	U039	5000 (2270)
Chlorodibromomethane .....	124-48-1	2		100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
1-Chloro-2,3-epoxypropane .....	106-89-8	1,3,4	U041	100 (45.4)
Chloroethane .....	75-00-3	2,3		100 (45.4)
2-Chloroethyl vinyl ether .....	110-75-8	2,4	U042	1000 (454)
Chloroform .....	67-66-3	1,2,3,4	U044	10 (4.54)
Chloromethane .....	74-87-3	2,3,4	U045	100 (45.4)
Chloromethyl methyl ether .....	107-30-2	3,4	U046	10 (4.54)
beta-Chloronaphthalene .....	91-58-7	2,4	U047	5000 (2270)
2-Chloronaphthalene .....	91-58-7	2,4	U047	5000 (2270)
2-Chlorophenol .....	95-57-8	2,4	U048	100 (45.4)
o-Chlorophenol .....	95-57-8	2,4	U048	100 (45.4)
4-Chlorophenyl phenyl ether .....	7005-72-3	2		5000 (2270)
1-(o-Chlorophenyl)thiourea .....	5344-82-1	4	P026	100 (45.4)
Chloroprene .....	126-99-8	3		100 (45.4)
3-Chloropropionitrile .....	542-76-7	4	P027	1000 (454)
Chlorosulfonic acid .....	7790-94-5	1		1000 (454)
4-Chloro-o-toluidine, hydrochloride .....	3165-93-3	4	U049	100 (45.4)
Chlorpyrifos .....	2921-88-2	1		1 (0.454)
Chromic acetate .....	1066-30-4	1		1000 (454)
Chromic acid .....	11115-74-5	1		10 (4.54)
Chromic acid H <sub>2</sub> CrO <sub>4</sub> , calcium salt .....	13765-19-0	1,4	U032	10 (4.54)
Chromic sulfate .....	10101-53-8	1		1000 (454)
Chromium †† .....	7440-47-3	2		5000 (2270)
CHROMIUM AND COMPOUNDS .....	N.A.	2,3		**
Chromium Compounds .....	N.A.	2,3		**
Chromous chloride .....	10049-05-5	1		1000 (454)
Chrysene .....	218-01-9	2,4	U050	100 (45.4)
Cobalt Compounds .....	N.A.	3		**
Cobaltous bromide .....	7789-43-7	1		1000 (454)
Cobaltous formate .....	544-18-3	1		1000 (454)
Cobaltous sulfamate .....	14017-41-5	1		1000 (454)
Coke Oven Emissions .....	N.A.	3		1 (0.454)
Copper †† .....	7440-50-8	2		5000 (2270)
COPPER AND COMPOUNDS .....	N.A.	2		**
Copper cyanide Cu(CN) .....	544-92-3	4	P029	10 (4.54)
Coumaphos .....	56-72-4	1		10 (4.54)
Creosote .....	N.A.	4	U051	1 (0.454)
Cresol (cresyl acid) .....	1319-77-3	1,3,4	U052	100 (45.4)
m-Cresol .....	108-39-4	3		100 (45.4)
o-Cresol .....	95-48-7	3		100 (45.4)
p-Cresol .....	106-44-5	3		100 (45.4)
Cresols (isomers and mixture) .....	1319-77-3	1,3,4	U052	100 (45.4)
Cresylic acid (isomers and mixture) .....	1319-77-3	1,3,4	U052	100 (45.4)
Crotonaldehyde .....	123-73-9	1,4	U053	100 (45.4)
Cumene .....	4170-30-3			
m-Cumanyl methylcarbamate .....	98-82-8	3,4	U055	5000 (2270)
Cupric acetate .....	64006	4	P202	10 (4.54)
Cupric acetoarsenite .....	142-71-2	1		100 (45.4)
Cupric chloride .....	12002-03-8	1		1 (0.454)
Cupric nitrate .....	7447-39-4	1		10 (4.54)
Cupric oxalate .....	3251-23-8	1		100 (45.4)
Cupric sulfate .....	5893-66-3	1		100 (45.4)
Cupric sulfate .....	7758-98-7	1		10 (4.54)
Cupric sulfate, ammoniated .....	10380-29-7	1		100 (45.4)
Cupric tartrate .....	815-82-7	1		100 (45.4)
Cyanide Compounds .....	N.A.	2,3		**
CYANIDES .....	N.A.	2,3		**
Cyanides (soluble salts and complexes) not otherwise specified .....	N.A.	4	P030	10 (4.54)
Cyanogen .....	460-19-5	4	P031	100 (45.4)
Cyanogen bromide (CN)Br .....	506-68-3	4	U246	1000 (454)
Cyanogen chloride (CN)Cl .....	506-77-4	1,4	P033	10 (4.54)
2,5-Cyclohexadiene-1,4-dione .....	106-51-4	3,4	U197	10 (4.54)
Cyclohexane .....	110-82-7	1,4	U056	1000 (454)
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α, 2α, 3β-, 4α, 5α, 6β).	58-89-9	1,2,3,4	U129	1 (0.454)
Cyclohexanone .....	108-94-1	4	U057	5000 (2270)
2-Cyclohexyl-4,6-dinitrophenol .....	131-89-5	4	P034	100 (45.4)
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- .....	77-47-4	1,2,3,4	U130	10 (4.54)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Cyclophosphamide .....	50-18-0	4	U058	10 (4.54)
2,4-D Acid .....	94-75-7	1,3,4	U240	100 (45.4)
2,4-D Ester .....	94-11-1	1		100 (45.4)
	94-79-1			
	94-80-4			
	1320-18-9			
	1928-38-7			
	1928-61-6			
	1929-73-3			
	2971-38-2			
	25168-26-7			
	53467-11-1			
2,4-D, salts and esters .....	94-75-7	1,3,4	U240	100 (45.4)
Daunomycin .....	20830-81-3	4	U059	10 (4.54)
DDD .....	72-54-8	1,2,4	U060	1 (0.454)
4,4'-DDD .....	72-54-8	1,2,4	U060	1 (0.454)
DDE b .....	72-55-9	2		1 (0.454)
DDE b .....	3547-04-4	3		5000 (2270)
4,4'-DDE .....	72-55-9	2		1 (0.454)
DDT .....	50-29-3	1,2,4	U061	1 (0.454)
4,4'-DDT .....	50-29-3	1,2,4	U061	1 (0.454)
DDT AND METABOLITES .....	N.A.	2		**
DEHP .....	117-81-7	2,3,4	U028	100 (45.4)
Diallate .....	2303-16-4	4	U062	100 (45.4)
Diazinon .....	333-41-5	1		1 (0.454)
Diazomethane .....	334-88-3	3		100 (45.4)
Dibenz[a,h]anthracene .....	53-70-3	2,4	U063	1 (0.454)
1,2,5,6-Dibenzanthracene .....	53-70-3	2,4	U063	1 (0.454)
Dibenzo[a,h]anthracene .....	53-70-3	2,4	U063	1 (0.454)
Dibenzofuran .....	132-64-9	3		100 (45.4)
Dibenzo[a,i]pyrene .....	189-55-9	4	U064	10 (4.54)
1,2-Dibromo-3-chloropropane .....	96-12-8	3,4	U066	1 (0.454)
Dibromoethane .....	106-93-4	1,3,4	U067	1 (0.454)
Diethyl phthalate .....	84-74-2	1,2,3,4	U069	10 (4.54)
Di-n-butyl phthalate .....	84-74-2	1,2,3,4	U069	10 (4.54)
Dicamba .....	1918-00-9	1		1000 (454)
Dichlobenil .....	1194-65-6	1		100 (45.4)
Dichlone .....	117-80-6	1		1 (0.454)
Dichlorobenzene .....	25321-22-6	1		100 (45.4)
1,2-Dichlorobenzene .....	95-50-1	1,2,4	U070	100 (45.4)
1,3-Dichlorobenzene .....	541-73-1	2,4	U071	100 (45.4)
1,4-Dichlorobenzene .....	106-46-7	1,2,3,4	U072	100 (45.4)
m-Dichlorobenzene .....	541-73-1	2,4	U071	100 (45.4)
o-Dichlorobenzene .....	95-50-1	1,2,4	U070	100 (45.4)
p-Dichlorobenzene .....	106-46-7	1,2,3,4	U072	100 (45.4)
DICHLOROBENZIDINE .....	N.A.	2		**
3,3'-Dichlorobenzidine .....	91-94-1	2,3,4	U073	1 (0.454)
Dichlorobromomethane .....	75-27-4	2		5000 (2270)
1,4-Dichloro-2-butene .....	764-41-0	4	U074	1 (0.454)
Dichlorodifluoromethane .....	75-71-8	4	U075	5000 (2270)
1,1-Dichloroethane .....	75-34-3	2,3,4	U076	1000 (454)
1,2-Dichloroethane .....	107-06-2	1,2,3,4	U077	100 (45.4)
1,1-Dichloroethylene .....	75-35-4	1,2,3,4	U078	100 (45.4)
1,2-Dichloroethylene .....	156-60-5	2,4	U079	1000 (454)
Dichloroethyl ether .....	111-44-4	2,3,4	U025	10 (4.54)
Dichloroisopropyl ether .....	108-60-1	2,4	U027	1000 (454)
Dichloromethane .....	75-09-2	2,3,4	U080	1000 (454)
Dichloromethoxyethane .....	111-91-1	2,4	U024	1000 (454)
Dichromethyl ether .....	542-88-1	2,3,4	P016	10 (4.54)
2,4-Dichlorophenol .....	120-83-2	2,4	U081	100 (45.4)
2,6-Dichlorophenol .....	87-65-0	4	U082	100 (45.4)
Dichlorophenylarsine .....	696-28-6	4	P036	1 (0.454)
Dichloropropane .....	26638-19-7	1		1000 (454)
	78-99-9			
	142-28-9			
1,2-Dichloropropane .....	78-87-5	1,2,3,4	U083	1000 (454)
Dichloropropane—Dichloropropene (mixture) .....	8003-19-8	1		100 (45.4)
Dichloropropene .....	26952-23-8	1		100 (45.4)
	78-88-6			

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)	
1,3-Dichloropropene .....	542-75-6	1,2,3,4	U084	100 (45.4)	
2,2-Dichloropropionic acid .....	75-99-0	1		5000 (2270)	
Dichlorvos .....	62-73-7	1,3		10 (4.54)	
Dicofol .....	115-32-2	1		10 (4.54)	
Dieldrin .....	60-57-1	1,2,4	P037	1 (0.454)	
1,2,3,4-Diepoxybutane .....	1464-53-5	4	U085	10 (4.54)	
Diethanolamine .....	111-42-2	3		100 (45.4)	
Diethylamine .....	109-89-7	1		100 (45.4)	
N,N-Diethylaniline .....	91-66-7	3		1000 (454)	
Diethylarsine .....	692-42-2	4	P038	1 (0.454)	
1,4-Diethyleneoxide .....	123-91-1	3,4	U108	100 (45.4)	
Diethylene glycol, dicarbamate .....	5952261	4	U395	5000 (2270)	
Diethylhexyl phthalate .....	117-81-7	2,3,4	U028	100 (45.4)	
N,N'-Diethylhydrazine .....	1615-80-1	4	U086	10 (4.54)	
O,O-Diethyl S-methyl dithiophosphate .....	3288-58-2	4	U087	5000 (2270)	
Diethyl-p-nitrophenyl phosphate .....	311-45-5	4	P041	100 (45.4)	
Diethyl phthalate .....	84-66-2	2,4	U088	1000 (454)	
O,O-Diethyl O-pyrazinyl phosphorothioate .....	297-97-2	4	P040	100 (45.4)	
Diethylstilbestrol .....	56-53-1	4	U089	1 (0.454)	
Diethyl sulfate .....	64-67-5	3		10 (4.54)	
Dihydrosafrole .....	94-58-6	4	U090	10 (4.54)	
Diisopropylfluorophosphate (DFP) .....	55-91-4	4	P043	100 (45.4)	
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8a-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-.	309-00-2	1,2,4	P004	1 (0.454)	
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta)-.	465-73-6	4	P060	1 (0.454)	
2,7;3,6-Dimethanonaphth[2,3- hexachloro-1a,2,2a,3,6,6a,7,7a- . (1alpha,2beta, 2alpha,3beta,6beta,6alpha, 7beta,7alpha)-].	bjoxirene,3,4,5,6,9,9- octahydro-	60-57-1	1,2,4	P037	1 (0.454)
2,7;3,6-Dimethanonaphth[2, hexachloro-1a,2,2a,3,6,6a,7,7a- . (1alpha,2beta, 2alpha,3alpha,6alpha, 6beta,7beta,7alpha)-, & metabolites.	3-b]oxirene,3,4,5,6,9,9- octahydro-	72-20-8	1,2,4	P051	1 (0.454)
Dimethoate .....	60-51-5	4	P044	10 (4.54)	
3,3'-Dimethoxybenzidine .....	119-90-4	3,4	U091	100 (45.4)	
Dimethylamine .....	124-40-3	1,4	U092	1000 (454)	
Dimethyl aminoazobenzene .....	60-11-7	3,4	U093	10 (4.54)	
p-Dimethylaminoazobenzene .....	60-11-7	3,4	U093	10 (4.54)	
N,N-Dimethylaniline .....	121-69-7	3		100 (45.4)	
7,12-Dimethylbenz[a]anthracene .....	57-97-6	4	U094	1 (0.454)	
3,3'-Dimethylbenzidine .....	119-93-7	3,4	U095	10 (4.54)	
alpha,alpha-Dimethylbenzylhydroperoxide .....	80-15-9	4	U096	10 (4.54)	
Dimethylcarbamoyl chloride .....	79-44-7	3,4	U097	1 (0.454)	
Dimethylformamide .....	68-12-2	3		100 (45.4)	
1,1-Dimethylhydrazine .....	57-14-7	3,4	U098	10 (4.54)	
1,2-Dimethylhydrazine .....	540-73-8	4	U099	1 (0.454)	
alpha,alpha-Dimethylphenethylamine .....	122-09-8	4	P046	5000 (2270)	
2,4-Dimethylphenol .....	105-67-9	2,4	U101	100 (45.4)	
Dimethyl phthalate .....	131-11-3	2,3,4	U102	5000 (2270)	
Dimethyl sulfate .....	77-78-1	3,4	U103	100 (45.4)	
Dimetilan .....	644644	4	P191	1 (0.454)	
Dinitrobenzene (mixed) .....	25154-54-5	1		100 (45.4)	
m-Dinitrobenzene .....	99-65-0				
o-Dinitrobenzene .....	528-29-0				
p-Dinitrobenzene .....	100-25-4				
4,6-Dinitro-o-cresol, and salts .....	534-52-1	2,3,4	P047	10 (4.54)	
Dinitrophenol .....	25550-58-7	1		10 (4.54)	
2,5-Dinitrophenol .....	329-71-5				
2,6-Dinitrophenol .....	573-56-8				
2,4-Dinitrophenol .....	51-28-5	1,2,3,4	P048	10 (4.54)	
Dinitrotoluene .....	25321-14-6	1,2		10 (4.54)	
3,4-Dinitrotoluene .....	610-39-9				
2,4-Dinitrotoluene .....	121-14-2	1,2,3,4	U105	10 (4.54)	
2,6-Dinitrotoluene .....	606-20-2	1,2,4	U106	100 (45.4)	
Dinoseb .....	88-85-7	4	P020	1000 (454)	
Di-n-octyl phthalate .....	117-84-0	2,4	U107	5000 (2270)	

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
1,4-Dioxane .....	123-91-1	3,4	U108	100 (45.4)
DIPHENYLHYDRAZINE .....	N.A.	2		**
1,2-Diphenylhydrazine .....	122-66-7	2,3,4	U109	10 (4.54)
Diphosphoramide, octamethyl- .....	152-16-9	4	P085	100 (45.4)
Diphosphoric acid, tetraethyl ester .....	107-49-3	1,4	P111	10 (4.54)
Dipropylamine .....	142-84-7	4	U110	5000 (2270)
Di-n-propylnitrosamine .....	621-64-7	2,4	U111	10 (4.54)
Diquat .....	85-00-7	1		1000 (454)
	2764-72-9			
Disulfoton .....	298-04-4	1,4	P039	1 (0.454)
Dithiobiuret .....	541-53-7	4	P049	100 (45.4)
1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O- [(methylamino)-carbonyl]oxime. ....	26419738	4	P185	100 (45.4)
Diuron .....	330-54-1	1		100 (45.4)
Dodecybenzenesulfonic acid .....	27176-87-0	1		1000 (454)
Endosulfan .....	115-29-7	1,2,4	P050	1 (0.454)
alpha-Endosulfan .....	959-98-8	2		1 (0.454)
beta-Endosulfan .....	33213-65-9	2		1 (0.454)
ENDOSULFAN AND METABOLITES .....	N.A.	2		**
Endosulfan sulfate .....	1031-07-8	2		1 (0.454)
Endothall .....	145-73-3	4	P088	1000 (454)
Endrin .....	72-20-8	1,2,4	P051	1 (0.454)
Endrin aldehyde .....	7421-93-4	2		1 (0.454)
ENDRIN AND METABOLITES .....	N.A.	2		**
Endrin, & metabolites .....	72-20-8	1,2,4	P051	1 (0.454)
Epichlorohydrin .....	106-89-8	1,3,4	U041	100 (45.4)
Epinephrine .....	51-43-4	4	P042	1000 (454)
1,2-Epoxybutane .....	106-88-7	3		100 (45.4)
Ethanal .....	75-07-0	1,3,4	U001	1000 (454)
Ethanamine, N,N-diethyl- .....	121-44-8	1,3,4	U404	5000 (2270)
Ethanamine, N-ethyl-N-nitroso- .....	55-18-5	4	U174	1 (0.454)
1,2-Ethanediamine, N,N-dimethyl-N'-2- pyridinyl-N'-(2-thienylmethyl)- .....	91-80-5	4	U155	5000 (2270)
Ethane, 1,2-dibromo- .....	106-93-4	1,3,4	U067	1 (0.454)
Ethane, 1,1-dichloro- .....	75-34-3	2,3,4	U076	1000 (454)
Ethane, 1,2-dichloro- .....	107-06-2	1,2,3,4	U077	100 (45.4)
Ethanodinitrile .....	460-19-5	4	P031	100 (45.4)
Ethane, hexachloro- .....	67-72-1	2,3,4	U131	100 (45.4)
Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro- .....	111-91-1	2,4	U024	1000 (454)
Ethane, 1,1'-oxybis- .....	60-29-7	4	U117	100 (45.4)
Ethane, 1,1'-oxybis[2-chloro- .....	111-44-4	2,3,4	U025	10 (4.54)
Ethane, pentachloro- .....	76-01-7	4	U184	10 (4.54)
Ethane, 1,1,1,2-tetrachloro- .....	630-20-6	4	U208	100 (45.4)
Ethane, 1,1,2,2-tetrachloro- .....	79-34-5	2,3,4	U209	100 (45.4)
Ethanethioamide .....	62-55-5	4	U218	10 (4.54)
Ethane, 1,1,1-trichloro- .....	71-55-6	2,3,4	U226	1000 (454)
Ethane, 1,1,2-trichloro- .....	79-00-5	2,3,4	U227	100 (45.4)
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester. ....	30558431	4	U394	5000 (2270)
Ethanimidothioic acid, 2-(dimethylamino)-N-[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester. ....	23135220	4	P194	100 (45.4)
Ethanimidothioic acid, N-[(methylamino) carbonyl]oxy-, methyl ester. ....	16752-77-5	4	P066	100 (45.4)
Ethanimidothioic acid, N,N'-[thiobis(methylimino) carbonyloxy]bis-, dimethyl ester. ....	59669260	4	U410	100 (45.4)
Ethanol, 2-ethoxy .....	110-80-5	4	U359	1000 (454)
Ethanol, 2,2'-(nitrosoimino)bis- .....	1116-54-7	4	U173	1 (0.454)
Ethanol, 2,2'-oxybis-, dicarbamate .....	5952261	4	U395	5000 (2270)
Ethanone, 1-phenyl- .....	98-86-2	3,4	U004	5000 (2270)
Ethene, chloro- .....	75-01-4	2,3,4	U043	1 (0.454)
Ethene, (2-chloroethoxy)- .....	110-75-8	2,4	U042	1000 (454)
Ethene, 1,1-dichloro- .....	75-35-4	1,2,3,4	U078	100 (45.4)
Ethene, 1,2-dichloro-(E) .....	156-60-5	2,4	U079	1000 (454)
Ethene, tetrachloro- .....	127-18-4	2,3,4	U210	100 (45.4)
Ethene, trichloro- .....	79-01-6	1,2,3,4	U228	100 (45.4)
Ethion .....	563-12-2	1		10 (4.54)
Ethyl acetate .....	141-78-6	4	U112	5000 (2270)
Ethyl acrylate .....	140-88-5	3,4	U113	1000 (454)
Ethylbenzene .....	100-41-4	1,2,3		1000 (454)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Ethyl carbamate .....	51-79-6	3,4	U238	100 (45.4)
Ethyl chloride .....	75-00-3	2,3		100 (45.4)
Ethyl cyanide .....	107-12-0	4	P101	10 (4.54)
Ethylenediamine-thiocarbamic acid, salts & esters .....	111-54-6	4	U114	5000 (2270)
Ethylenediamine .....	107-15-3	1		5000 (2270)
Ethylenediamine-tetraacetic acid (EDTA) .....	60-00-4	1		5000 (2270)
Ethylene dibromide .....	106-93-4	1,3,4	U067	1 (0.454)
Ethylene dichloride .....	107-06-2	1,2,3,4	U077	100 (45.4)
Ethylene glycol .....	107-21-1	3		5000 (2270)
Ethylene glycol monoethyl ether .....	110-80-5	4	U359	1000 (454)
Ethylene oxide .....	75-21-8	3,4	U115	10 (4.54)
Ethylenethiourea .....	96-45-7	3,4	U116	10 (4.54)
Ethylendiamine .....	151-56-4	3,4	P054	1 (0.454)
Ethyl ether .....	60-29-7	4	U117	100 (45.4)
Ethyldene dichloride .....	75-34-3	2,3,4	U076	1000 (454)
Ethyl methacrylate .....	97-63-2	4	U118	1000 (454)
Ethyl methanesulfonate .....	62-50-0	4	U119	1 (0.454)
Famphur .....	52-85-7	4	P097	1000 (454)
Ferric ammonium citrate .....	1185-57-5	1		1000 (454)
Ferric ammonium oxalate .....	2944-67-4	1		1000 (454)
	55488-87-4			
Ferric chloride .....	7705-08-0	1		1000 (454)
Ferric fluoride .....	7783-50-8	1		100 (45.4)
Ferric nitrate .....	10421-48-4	1		1000 (454)
Ferric sulfate .....	10028-22-5	1		1000 (454)
Ferrous ammonium sulfate .....	10045-89-3	1		1000 (454)
Ferrous chloride .....	7758-94-3	1		100 (45.4)
Ferrous sulfate .....	7720-78-7	1		1000 (454)
	7782-63-0			
Fine mineral fibers <sup>c</sup> .....	N.A.	3		**
Fluoranthene .....	206-44-0	2,4	U120	100 (45.4)
Fluorene .....	86-73-7	2		5000 (2270)
Fluorine .....	7782-41-4	4	P056	10 (4.54)
Fluoracetamide .....	640-19-7	4	P057	100 (45.4)
Fluoroacetic acid, sodium salt .....	62-74-8	4	P058	10 (4.54)
Formaldehyde .....	50-00-0	1,3,4	U122	100 (45.4)
Formetanate hydrochloride .....	23422539	4	P198	100 (45.4)
Formic acid .....	64-18-6	1,4	U123	5000 (2270)
Formparanate .....	17702577	4	P197	100 (45.4)
Fulminic acid, mercury(2+)-salt .....	628-86-4	4	P065	10 (4.54)
Fumaric acid .....	110-17-8	1		5000 (2270)
Furan .....	110-00-9	4	U124	100 (45.4)
2-Furancarboxaldehyde .....	98-01-1	1,4	U125	5000 (2270)
2,5-Furandione .....	108-31-6	1,3,4	U147	5000 (2270)
Furan, tetrahydro- .....	109-99-9	4	U213	1000 (454)
Furfural .....	98-01-1	1,4	U125	5000 (2270)
Furfuran .....	110-00-9	4	U124	100 (45.4)
Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-D-D-Glucose, 2-deoxy-2-[[[(methylnitrosoamino)-carbonyl]amino]-.	18883-66-4	4	U206	1 (0.454)
Glycidylaldehyde .....	18883-66-4	4	U206	1 (0.454)
Glycidyl ethers <sup>d</sup> .....	765-34-4	4	U126	10 (4.54)
Guanidine, N-methyl-N'-nitro-N-nitroso- .....	N.A.	3		**
Guthion .....	70-25-7	4	U163	10 (4.54)
HALOETHERS .....	86-50-0	1		1 (0.454)
HALOMETHANES .....	N.A.	2		**
Heptachlor .....	76-44-8	1,2,3,4	P059	1 (0.454)
HEPTACHLOR AND METABOLITES .....	N.A.	2		**
Heptachlor epoxide .....	1024-57-3	2		1 (0.454)
Hexachlorobenzene .....	118-74-1	2,3,4	U127	10 (4.54)
Hexachlorobutadiene .....	87-68-3	2,3,4	U128	1 (0.454)
HEXACHLOROCYCLOHEXANE (all isomers) .....	608-73-1	2		**
Hexachlorocyclopentadiene .....	77-47-4	1,2,3,4	U130	10 (4.54)
Hexachloroethane .....	67-72-1	2,3,4	U131	100 (45.4)
Hexachloroprene .....	70-30-4	4	U132	100 (45.4)
Hexachloropropene .....	1888-71-7	4	U243	1000 (454)
Hexaethyl tetraphosphate .....	757-58-4	4	P062	100 (45.4)
Hexamethylene-1,6-diisocyanate .....	822-06-0	3		100 (45.4)
Hexamethylphosphoramide .....	680-31-9	3		1 (0.454)

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 TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Hexane .....	110-54-3	3		5000 (2270)
Hexone .....	108-10-1	3,4	U161	5000 (2270)
Hydrazine .....	302-01-2	3,4	U133	1 (0.454)
Hydrazinecarbothioamide .....	79-19-6	4	P116	100 (45.4)
Hydrazine, 1,2-diethyl- .....	1615-80-1	4	U086	10 (4.54)
Hydrazine, 1,1-dimethyl- .....	57-14-7	3,4	U098	10 (4.54)
Hydrazine, 1,2-dimethyl- .....	540-73-8	4	U099	1 (0.454)
Hydrazine, 1,2-diphenyl- .....	122-66-7	2,3,4	U109	10 (4.54)
Hydrazine, methyl- .....	60-34-4	3,4	P068	10 (4.54)
Hydrochloric acid .....	7647-01-0	1,3		5000 (2270)
Hydrocyanic acid .....	74-90-8	1,4	P063	10 (4.54)
Hydrofluoric acid .....	7664-39-3	1,3,4	U134	100 (45.4)
Hydrogen chloride .....	7647-01-0	1,3		5000 (2270)
Hydrogen cyanide .....	74-90-8	1,4	P063	10 (4.54)
Hydrogen fluoride .....	7664-39-3	1,3,4	U134	100 (45.4)
Hydrogen phosphide .....	7803-51-2	3,4	P096	100 (45.4)
Hydrogen sulfide H2S .....	7783-06-4	1,4	U135	100 (45.4)
Hydroperoxide, 1-methyl-1-phenylethyl- .....	80-15-9	4	U096	10 (4.54)
Hydroquinone .....	123-31-9	3		100 (45.4)
2-Imidazolidinethione .....	96-45-7	3,4	U116	10 (4.54)
Indeno(1,2,3-cd)pyrene .....	193-39-5	2,4	U137	100 (45.4)
Iodomethane .....	74-88-4	3,4	U138	100 (45.4)
1,3-Isobenzofuranone .....	85-44-9	3,4	U190	5000 (2270)
Isobutyl alcohol .....	78-83-1	4	U140	5000 (2270)
Isodrin .....	465-73-6	4	P060	1 (0.454)
Isolan .....	119380	4	P192	100 (45.4)
Isophorone .....	78-59-1	2,3		5000 (2270)
Isoprene .....	78-79-5	1		100 (45.4)
Isopropanolamine dodecybenzenesulfonate .....	42504-46-1	1		1000 (454)
3-Isopropylphenyl N-methylcarbamate .....	64006	4	P202	10 (4.54)
Isosafrole .....	120-58-1	4	U141	100 (45.4)
3(2H)-Isoxazolone, 5-(aminomethyl)- .....	2763-96-4	4	P007	1000 (454)
Kepone .....	143-50-0	1,4	U142	1 (0.454)
Lasiocarpine .....	303-34-4	4	U143	10 (4.54)
Lead† .....	7439-92-1	2		10 (4.54)
Lead acetate .....	301-04-2	1,4	U144	10 (4.54)
LEAD AND COMPOUNDS .....	N.A.	2,3		**
Lead arsenate .....	7784-40-9	1		1 (0.454)
	7645-25-2			
	10102-48-4			
Lead, bis(acetato-O)tetrahydroxytri- .....	1335-32-6	4	U146	10 (4.54)
Lead chloride .....	7758-95-4	1		10 (4.54)
Lead compounds .....	N.A.	2,3		**
Lead fluoborate .....	13814-96-5	1		10 (4.54)
Lead fluoride .....	7783-46-2	1		10 (4.54)
Lead iodide .....	10101-63-0	1		10 (4.54)
Lead nitrate .....	10099-74-8	1		10 (4.54)
Lead phosphate .....	7446-27-7	4	U145	10 (4.54)
Lead stearate .....	1072-35-1	1		10 (4.54)
	7428-48-0			
	52652-59-2			
	56189-09-4			
Lead subacetate .....	1335-32-6	4	U146	10 (4.54)
Lead sulfate .....	7446-14-2	1		10 (4.54)
	15739-80-7			
Lead sulfide .....	1314-87-0	1		10 (4.54)
Lead thiocyanate .....	592-87-0	1		10 (4.54)
Lindane .....	58-89-9	1,2,3,4	U129	1 (0.454)
Lindane (all isomers) .....	58-89-9	1,2,3,4	U129	1 (0.454)
Lithium chromate .....	14307-35-8	1		10 (4.54)
Malathion .....	121-75-5	1		100 (45.4)
Maleic acid .....	110-16-7	1		5000 (2270)
Maleic anhydride .....	108-31-6	1,3,4	U147	5000 (2270)
Maleic hydrazide .....	123-33-1	4	U148	5000 (2270)
Malononitrile .....	109-77-3	4	U149	1000 (454)
Manganese, bis (dimethylcarbamodithioato-S,S)- .....	15339363	4	P196	10 (4.54)
Manganese Compounds .....	N.A.	3		**
Manganese dimethylthiocarbamate .....	15339363	4	P196	10 (4.54)
MDI .....	101-68-8	3		5000 (2270)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
MEK .....	78-93-3	3,4	U159	5000 (2270)
Melphalan .....	148-82-3	4	U150	1 (0.454)
Mercaptodimethur .....	2032-65-7	1,4	P199	10 (4.54)
Mercuric cyanide .....	592-04-1	1		1(0.454)
Mercuric nitrate .....	10045-94-0	1		10 (4.54)
Mercuric sulfate .....	7783-35-9	1		10 (4.54)
Mercuric thiocyanate .....	592-85-8	1		10 (4.54)
Mercurous nitrate .....	10415-75-5	1	10 (4.54)	7782-86-7
Mercury .....	7439-97-6	2,3,4	U151	1 (0.454)
MERCURY AND COMPOUNDS .....	N.A.	2,3		**
Mercury, (acetato-O)phenyl- .....	62-38-4	4	P092	100 (45.4)
Mercury Compounds .....	N.A.	2,3		**
Mercury fulminate .....	628-86-4	4	P065	10 (4.54)
Methacrylonitrile .....	126-98-7	4	U152	1000 (454)
Methanamine, N-methyl- .....	124-40-3	1,4	U092	1000 (454)
Methanamine, N-methyl-N-nitroso- .....	62-75-9	2,3,4	P082	10 (4.54)
Methane, bromo- .....	74-83-9	2,3,4	U029	1000 (454)
Methane, chloro- .....	74-87-3	2,3,4	U045	100 (45.4)
Methane, chloromethoxy- .....	107-30-2	3,4	U046	10 (4.54)
Methane, dibromo- .....	74-95-3	4	U068	1000 (454)
Methane, dichloro- .....	75-09-2	2,3,4	U080	1000 (454)
Methane, dichlorodifluoro- .....	75-71-8	4	U075	5000 (2270)
Methane, iodo- .....	74-88-4	3,4	U138	100 (45.4)
Methane, isocyanato- .....	624-83-9	3,4	P064	10 (4.54)
Methane, oxybis(chloro- .....	542-88-1	2,3,4	P016	10 (4.54)
Methanesulfenyl chloride, trichloro- .....	594-42-3	4	P118	100 (45.4)
Methanesulfonic acid, ethyl ester .....	62-50-0	4	U119	1 (0.454)
Methane, tetrachloro- .....	56-23-5	1,2,3,4	U211	10 (4.54)
Methane, tetranitro- .....	509-14-8	4	P112	10 (4.54)
Methanethiol .....	74-93-1	1,4	U153	100 (45.4)
Methane, tribromo- .....	75-25-2	2,3,4	U225	100 (45.4)
Methane, trichloro- .....	67-66-3	1,2,3,4	U044	10 (4.54)
Methane, trichlorofluoro- .....	75-69-4	4	U121	5000 (2270)
Methanimidamide, N,N-dimethyl-N'-(3-[(methylamino)-carbonyloxy]phenyl]-, monohydrochloride.	23422539	4	P198	100 (45.4)
Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino) carbonyloxy]phenyl]-.	17702577	4	P197	100 (45.4)
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide.	115-29-7	1,2,4	P050	1 (0.454)
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-.	76-44-8	1,2,3,4	P059	1 (0.454)
4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-.	57-74-9	1,2,3,4	U036	1 (0.454)
Methanol .....	67-56-1	3,4	U154	5000 (2270)
Methaprylene .....	91-80-5	4	U155	5000 (2270)
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-.	143-50-0	1,4	U142	1 (0.454)
Methiocarb .....	2032-65-7	1,4	P199	10 (4.54)
Methomyl .....	16752-77-5	4	P066	100 (45.4)
Methoxychlor .....	72-43-5	1,3,4	U247	1 (0.454)
Methyl alcohol .....	67-56-1	3,4	U154	5000 (2270)
2-Methyl aziridine .....	75-55-8	3,4	P067	1 (0.454)
Methyl bromide .....	74-83-9	2,3,4	U029	1000 (454)
1-Methylbutadiene .....	504-60-9	4	U186	100 (45.4)
Methyl chloride .....	74-87-3	2,3,4	U045	100 (45.4)
Methyl chlorocarbonate .....	79-22-1	4	U156	1000 (454)
Methyl chloroform .....	71-55-6	2,3,4	U226	1000 (454)
3-Methylcholanthrene .....	56-49-5	4	U157	10 (4.54)
4,4'-Methylenebis(2-chloroaniline) .....	101-14-4	3,4	U158	10 (4.54)
Methylene bromide .....	74-95-3	4	U068	1000 (454)
Methylene chloride .....	75-09-2	2,3,4	U080	1000 (454)
4,4'-Methylenedianiline .....	101-77-9	3		10 (4.54)
Methylene diphenyl diisocyanate .....	101-68-8	3		5000 (2270)
Methyl ethyl ketone .....	78-93-3	3,4	U159	5000 (2270)
Methyl ethyl ketone peroxide .....	1338-23-4	4	U160	10 (4.54)
Methyl hydrazine .....	60-34-4	3,4	P068	10 (4.54)
Methyl iodide .....	74-88-4	3,4	U138	100 (45.4)
Methyl isobutyl ketone .....	108-10-1	3,4	U161	5000 (2270)
Methyl isocyanate .....	624-83-9	3,4	P064	10 (4.54)

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 TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
2-Methylacrylonitrile .....	75-86-5	1,4	P069	10 (4.54)
Methyl mercaptan .....	74-93-1	1,4	U153	100 (45.4)
Methyl methacrylate .....	80-62-6	1,3,4	U162	1000 (454)
Methyl parathion .....	298-00-0	1,4	P071	100 (45.4)
4-Methyl-2-pentanone .....	108-10-1	3,4	U161	5000 (2270)
Methyl tert-butyl ether .....	1634-04-4	3		1000 (454)
Methylthiouracil .....	56-04-2	4	U164	10 (4.54)
Metolcarb .....	1129415	4	P190	1000 (454)
Mevinphos .....	7786-34-7	1		10 (4.54)
Mexacarbate .....	315-18-4	1,4	P128	1000 (454)
Mitomycin C .....	50-07-7	4	U010	10 (4.54)
MNNG .....	70-25-7	4	U163	10 (4.54)
Monoethylamine .....	75-04-7	1		100 (45.4)
Monomethylamine .....	74-89-5	1		100 (45.4)
Naled .....	300-76-5	1		10 (4.54)
5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-.	20830-81-3	4	U059	10 (4.54)
1-Naphthalenamine .....	134-32-7	4	U167	100 (45.4)
2-Naphthalenamine .....	91-59-8	4	U168	10 (4.54)
Naphthalenamine, N,N'-bis(2-chloroethyl)- .....	494-03-1	4	U026	100 (45.4)
Naphthalene .....	91-20-3	1,2,3,4	U165	100 (45.4)
Naphthalene, 2-chloro- .....	91-58-7	2,4	U047	5000 (2270)
1,4-Naphthalenedione .....	130-15-4	4	U166	5000 (2270)
2,7-Naphthalenedisulfonic acid, 3,3'-(3,3'-dimethyl-1,1'-biphenyl)-4,4'-diyl)-bis(azo)[bis(5-amino-4-hydroxy)-tetrasodium salt].	72-57-1	4	U236	10 (4.54)
1-Naphthalenol, methylcarbamate .....	63-25-2	1,3,4	U279	100 (45.4)
Naphthenic acid .....	1338-24-5	1		100 (45.4)
1,4-Naphthoquinone .....	130-15-4	4	U166	5000 (2270)
alpha-Naphthylamine .....	134-32-7	4	U167	100 (45.4)
beta-Naphthylamine .....	91-59-8	4	U168	10 (4.54)
alpha-Naphthylthiourea .....	86-88-4	4	P072	100 (45.4)
Nickel†† .....	7440-02-0	2		100 (45.4)
Nickel ammonium sulfate .....	15699-18-0	1		100 (45.4)
NICKEL AND COMPOUNDS .....	N.A.	2,3		**
Nickel carbonyl Ni(CO)4, (T-4)- .....	13463-39-3	4	P073	10 (4.54)
Nickel chloride .....	7718-54-9	1		100 (45.4)
	37211-05-5			
Nickel compounds .....	N.A.	2,3		**
Nickel cyanide Ni(CN)2 .....	557-19-7	4	P074	10 (4.54)
Nickel hydroxide .....	12054-48-7	1		10 (4.54)
Nickel nitrate .....	14216-75-2	1		100 (45.4)
Nickel sulfate .....	7786-81-4	1		100 (45.4)
Nicotine, & salts .....	54-11-5	4	P075	100 (45.4)
Nitric acid .....	7697-37-2	1		1000 (454)
Nitric acid, thallium (1+) salt .....	10102-45-1	4	U217	100 (45.4)
Nitri oxide .....	10102-43-9	4	P076	10 (4.54)
p-Nitroaniline .....	100-01-6	4	P077	5000 (2270)
Nitrobenzene .....	98-95-3	1,2,3,4	U169	1000 (454)
4-Nitrobiphenyl .....	92-93-3	3		10 (4.54)
Nitrogen dioxide .....	10102-44-0	1,4	P078	10 (4.54)
	10544-72-6			
Nitrogen oxide NO .....	10102-43-9	4	P076	10 (4.54)
Nitrogen oxide NO <sub>2</sub> .....	10102-44-0	1,4	P078	10 (4.54)
	10544-72-6			
Nitroglycerine .....	55-63-0	4	P081	10 (4.54)
Nitrophenol (mixed) .....	25154-55-6	1		100 (45.4)
m-Nitrophenol .....	554-84-7			
o-Nitrophenol .....	88-75-5	1,2		100 (45.4)
p-Nitrophenol .....	100-02-7	1,2,3,4	U170	100 (45.4)
2-Nitrophenol .....	88-75-5	1,2		100 (45.4)
4-Nitrophenol .....	100-02-7	1,2,3,4	U170	100 (45.4)
NITROPHENOLS .....	N.A.	2		**
2-Nitropropane .....	79-46-9	3,4	U171	10 (4.54)
NITROSAMINES .....	N.A.	2		**
N-Nitrosodi-n-butylamine .....	924-16-3	4	U172	10 (4.54)
N-Nitrosodiethanolamine .....	1116-54-7	4	U173	1 (0.454)
N-Nitrosodiethylamine .....	55-18-5	4	U174	1 (0.454)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
N-Nitrosodimethylamine .....	62-75-9	2,3,4	P082	10 (4.54)
N-Nitrosodiphenylamine .....	86-30-6	2		100 (45.4)
N-Nitroso-N-ethyleurea .....	759-73-9	4	U176	1 (0.454)
N-Nitroso-N-methylurea .....	684-93-5	3,4	U177	1 (0.454)
N-Nitroso-N-methylurethane .....	615-53-2	4	U178	1 (0.454)
N-Nitrosomethylvinylamine .....	4549-40-0	4	P084	10 (4.54)
N-Nitrosomorpholine .....	59-89-2	3		1 (0.454)
N-Nitrosopiperidine .....	100-75-4	4	U179	10 (4.54)
N-Nitrosopyrrolidine .....	930-55-2	4	U180	1 (0.454)
Nitrotoluene .....	1321-12-6	1		1000 (454)
m-Nitrotoluene .....	99-08-1			.....
o-Nitrotoluene .....	88-72-2			.....
p-Nitrotoluene .....	99-99-0			.....
5-Nitro-o-tolidine .....	99-55-8	4	U181	100 (45.4)
Octamethylpyrophosphamide .....	152-16-9	4	P085	100 (45.4)
Osmium oxide OsO <sub>4</sub> , (T-4)– .....	20816-12-0	4	P087	1000 (454)
Osmium tetroxide .....	20816-12-0	4	P087	1000 (454)
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid .....	145-73-3	4	P088	1000 (454)
Oxamyl .....	23135220	4	P194	100 (4.54)
1,2-Oxathiolane, 2,2-dioxide .....	1120-71-4	3,4	U193	10 (4.54)
2H-1,3,2-Oxazaphosphorin-2-amine, N,N- bis(2-chloroethyl)tetrahydro-, 2-oxide.	50-18-0	4	P058	10 (4.54)
Oxirane .....	75-21-8	3,4	U115	10 (4.54)
Oxiranecarboxyaldehyde .....	765-34-4	4	U126	10 (4.54)
Oxirane, (chloromethyl)- .....	106-89-8	1,3,4	U041	100 (45.4)
Paraformaldehyde .....	3025-89-4	1		1000 (454)
Paraldehyde .....	123-63-7	4	U182	1000 (454)
Parathion .....	56-38-2	1,3,4	P089	10 (4.54)
PCBs .....	1336-36-3	1,2,3		1 (0.454)
PCNB .....	82-68-8	3,4	U185	100 (45.4)
Pentachlorobenzene .....	608-93-5	4	U183	10 (4.54)
Pentachloroethane .....	76-01-7	4	U184	10 (4.54)
Pentachloronitrobenzene .....	82-68-8	3,4	U185	100 (45.4)
Pentachlorophenol .....	87-86-5	1,2,3,4	See F027	10 (4.54)
1,3-Pentadiene .....	504-60-9	4	U186	100 (45.4)
Perchloroethylene .....	127-18-4	2,3,4	U210	100 (4.54)
Phenacetin .....	62-44-2	4	U187	100 (4.54)
Phenanthrene .....	85-01-8	2		5000 (2270)
Phenol .....	108-95-2	1,2,3,4	U188	1000 (454)
Phenol, 2-chloro- .....	95-57-8	2,4	U048	100 (45.4)
Phenol, 4-chloro-3-methyl- .....	59-50-7	2,4	U039	5000 (2270)
Phenol, 2-cyclohexyl-4,6-dinitro- .....	131-89-5	4	P034	100 (45.4)
Phenol, 2,4-dichloro- .....	120-83-2	2,4	U081	100 (45.4)
Phenol, 2,6-dichloro- .....	87-65-0	4	U082	100 (45.4)
Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E) .....	56-53-1	4	U089	1 (0.454)
Phenol, 2,4-dimethyl- .....	105-67-9	2,4	U101	100 (45.4)
Phenol, 4-(dimethylamino)-3,5-dimethyl-, 4 methylcarbamate (ester).	315-18-4	1,4	P128	1000 (454)
Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate ....	2032-65-7	1,4	P199	10 (4.54)
Phenol, 2,4-dinitro- .....	51-28-5	1,2,3,4	P048	10 (4.54)
Phenol, methyl- .....	1319-77-3	1,3,4	U052	100 (45.4)
Phenol, 2-methyl-4,6-dinitro, & salts .....	534-52-1	2,3,4	P047	10 (4.54)
Phenol, 2,2'-methylenebis[3,4,6- trichloro- .....	70-30-4	4	U132	100 (45.4)
Phenol, 2-(1-methylethoxy)-, methylcarbamate .....	114-26-1	3,4	U411	100 (45.4)
Phenol, 3-(1-methylethyl)-, methyl carbamate .....	64006	4	P202	10 (4.54)
Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate ....	2631370	4	P201	1000 (454)
Phenol, 2-(1-methylpropyl)-4,6-dinitro .....	88-85-7	4	P020	1000 (454)
Phenol, 4-nitro- .....	100-02-7	1,2,3,4	U170	100 (45.4)
Phenol, pentachloro- .....	87-86-5	1,2,3,4	See F027	10 (4.54)
Phenol, 2,3,4,6-tetrachloro- .....	58-90-2	4	See F027	10 (4.54)
Phenol, 2,4,5-trichloro- .....	95-95-4	1,3,4	See F027	10 (4.54)
Phenol, 2,4,6-trichloro- .....	88-06-2	1,2,3,4	See F027	10 (4.54)
Phenol, 2,4,6-trinitro-, ammonium salt .....	131-74-8	4	P009	10 (4.54)
L-Phenylalanine, 4-[bis(2-chloroethyl)amino]- .....	148-82-3	4	U150	1 (0.454)
p-Phenylenediamine .....	106-50-3	3		5000 (2270)
Phenylmercury acetate .....	62-38-4	4	P092	100 (45.4)
Phenyliothiourea .....	103-85-5	4	P093	100 (45.4)
Phorate .....	298-02-2	4	P094	10 (4.54)
Phosgene .....	75-44-5	1,3,4	P095	10 (4.54)

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 TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Phosphine .....	7803-51-2	3,4	P096	100 (45.4)
Phosphoric acid .....	7664-38-2	1		5000 (2270)
Phosphoric acid, diethyl 4-nitrophenyl ester .....	311-45-5	4	P041	100 (45.4)
Phosphoric acid, lead(2+) salt (2:3) .....	7446-27-7	4	U145	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester.	298-04-4	1,4	P039	1 (0.454)
Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester.	298-02-2	4	P094	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S-methyl ester .....	3288-58-2	4	U087	5000 (2270)
Phosphorodithioic acid, O,O-dimethyl S-[2(methylamino)-2-oxyethyl] ester.	60-51-5	4	P044	10 (4.54)
Phosphorofluoridic acid, bis(1-methylethyl) ester .....	55-91-4	4	P043	100 (45.4)
Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	56-38-2	1,3,4	P089	10 (4.54)
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester .....	297-97-2	4	P040	100 (45.4)
Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester.	52-85-7	4	P097	1000 (454)
Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester.	298-00-0	1,4	P071	100 (45.4)
Phosphorus .....	7723-14-0	1,3		1 (0.454)
Phosphorus oxychloride .....	10025-87-3	1		1000 (454)
Phosphorus pentasulfide .....	1314-80-3	1,4	U189	100 (45.4)
Phosphorus sulfide .....	1314-80-3	1,4	U189	100 (45.4)
Phosphorus trichloride .....	7719-12-2	1		1000 (454)
Physostigmine .....	57476	4	P204	100 (45.4)
Physostigmine salicylate .....	57647	4	P188	100 (45.4)
PHTHALATE ESTERS .....	N.A.	2		**
Phthalic anhydride .....	85-44-9	3,4	U190	5000 (2270)
2-Picoline .....	109-06-8	4	U191	5000 (2270)
Piperidine, 1-nitroso- .....	100-75-4	4	U179	10 (4.54)
Plumbane, tetraethyl- .....	78-00-2	1,4	P110	10 (4.54)
POLYCHLORINATED BIPHENYLS .....	1336-36-3	1,2,3		1 (0.454)
Polyyclic Organic Matter <sup>e</sup> .....	N.A.	3		**
POLYNUCLEAR AROMATIC HYDROCARBONS .....	N.A.	2		**
Potassium arsenite .....	7784-41-0	1		1 (0.454)
Potassium arsenite .....	10124-50-2	1		1 (0.454)
Potassium bichromate .....	7778-50-9	1		10 (4.54)
Potassium chromate .....	7789-00-6	1		10 (4.54)
Potassium cyanide K(CN) .....	151-50-8	1,4	P098	10 (4.54)
Potassium hydroxide .....	1310-58-3	1		1000 (454)
Potassium permanganate .....	7722-64-7	1		100 (45.4)
Potassium silver cyanide .....	506-61-6	4	P099	1 (0.454)
Promecarb .....	2631370	4	P201	1000 (454)
Pronamide .....	23950-58-5	4	U192	5000 (2270)
Propanal, 2-methyl-2-(methylsulfonyl)-, O-[(methylamino)carbonyl] oxime.	1646884	4	P203	100 (45.4)
Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime.	116-06-3	4	P070	1 (0.454)
1-Propanamine .....	107-10-8	4	U194	5000 (2270)
1-Propanamine, N-propyl- .....	142-84-7	4	U110	5000 (2270)
1-Propanamine, N-nitroso-N-propyl- .....	621-64-7	2,4	U111	10 (4.54)
Propane, 1,2-dibromo-3-chloro- .....	96-12-8	3,4	U066	1 (0.454)
Propane, 1,2-dichloro- .....	78-87-5	1,2,3,4	U083	1000 (454)
Propanedinitrile .....	109-77-3	4	U149	1000 (454)
Propanenitrile .....	107-12-0	4	P101	10 (4.54)
Propanenitrile, 3-chloro- .....	542-76-7	4	P027	1000 (454)
Propanenitrile, 2-hydroxy-2-methyl- .....	75-86-5	1,4	P069	10 (4.54)
Propane, 2-nitro- .....	79-46-9	3,4	U171	10 (4.54)
Propane, 2,2'-oxybis[2-chloro- .....	108-60-1	2,4	U027	1000 (454)
1,3-Propane sultone .....	1120-71-4	3,4	U193	10 (4.54)
1,2,3-Propanetriol, trinitrate .....	55-63-0	4	P081	10 (4.54)
Propanoic acid, 2-(2,4,5-trichlorophenoxy)- .....	93-72-1	1,4	See F027	100 (45.4)
1-Propanol, 2,3-dibromo-, phosphate (3:1) .....	126-72-7	4	U235	10 (4.54)
1-Propanol, 2-methyl- .....	78-83-1	4	U140	5000 (2270)
2-Propanone .....	67-64-1	4	U002	5000 (2270)
2-Propanone, 1-bromo- .....	598-31-2	4	P017	1000 (454)
Propargite .....	2312-35-8	1		10 (4.54)
Propargyl alcohol .....	107-19-7	4	P102	1000 (454)
2-Propenal .....	107-02-8	1,2,3,4	P003	1 (0.454)
2-Propenamide .....	79-06-1	3,4	U007	5000 (2270)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
1-Propene, 1,3-dichloro-	542-75-6	1,2,3,4	U084	100 (45.4)
1-Propene, 1,1,2,3,3-hexachloro-	1888-71-7	4	U243	1000 (454)
2-Propenenitrile	107-13-1	1,2,3,4	U009	100 (45.4)
2-Propenenitrile, 2-methyl-	126-98-7	4	U152	1000 (454)
2-Propenoic acid	79-10-7	3,4	U008	5000 (2270)
2-Propenoic acid, ethyl ester	140-88-5	3,4	U113	1000 (454)
2-Propenoic acid, 2-methyl-, ethyl ester	97-63-2	4	U118	1000 (454)
2-Propenoic acid, 2-methyl-, methyl ester	80-62-6	1,3,4	U162	1000 (454)
2-Propen-1-ol	107-18-6	1,4	P005	100 (45.4)
Propanil	122429	4	U373	1000 (454)
beta-Propiolactone	57-57-8	3		10 (4.54)
Propionaldehyde	123-38-6	3	1000 (454)	
Propionic acid	79-09-4	1		5000 (2270)
Propionic anhydride	123-62-6	1		5000 (2270)
Propoxur (Baygon)	114-26-1	3,4	U411	100 (45.4)
n-Propylamine	107-10-8	4	U194	5000 (2270)
Propylene dichloride	78-87-5	1,2,3,4	U083	1000 (454)
Propylene oxide	75-56-9	1,3		100 (45.4)
1,2-Propylenimine	75-55-8	3,4	P067	1 (0.454)
2-Propyn-1-ol	107-19-7	4	P102	1000 (454)
Prosulfocarb	52888809	4	U387	5000 (2270)
Pyrene	129-00-0	2		5000 (2270)
Pyrethrins	121-29-9	1		1 (0.454)
	121-21-1			
	8003-34-7			
3,6-Pyridazinedione, 1,2-dihydro-	123-33-1	4	U148	5000 (2270)
4-Pyridinamine	504-24-5	4	P008	1000 (454)
Pyridine	110-86-1	4	U196	1000 (454)
Pyridine, 2-methyl-	109-06-8	4	U191	5000 (2270)
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts	54-11-5	4	P075	100 (45.4)
2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	66-75-1	4	U237	10 (4.54)
4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	56-04-2	4	U164	10 (4.54)
Pyrrolidine, 1-nitroso-	930-55-2	4	U180	1 (0.454)
Pyrrolo[2,3-blindol-5-ol, 1,2,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-]	57476	4	P204	100 (45.4)
Quinoline	91-22-5	1,3		5000 (2270)
Quinone	106-51-4	3,4	U197	10 (4.54)
Quintobenzene	82-68-8	3,4	U185	100 (45.4)
Radionuclides (including radon)	N.A.	3		§
Reserpine	50-55-5	4	U200	5000 (2270)
Resorcinol	108-46-3	1,4	U201	5000 (2270)
Saccharin, & salts	81-07-2	4	U202	100 (45.4)
Safrole	94-59-7	4	U203	100 (45.4)
Selenious acid	7783-00-8	4	U204	10 (4.54)
Selenious acid, dithallium (1+) salt	12039-52-0	4	P114	1000 (454)
Selenium††	7782-49-2	2		100 (45.4)
SELENIUM AND COMPOUNDS	N.A.	2,3		**
Selenium Compounds	N.A.	2,3		**
Selenium dioxide	7446-08-4	1,4	U204	10 (4.54)
Selenium oxide	7446-08-4	1,4	U204	10 (4.54)
Selenium sulfide SeS <sub>2</sub>	7488-56-4	4	U205	10 (4.54)
Selenourea	630-10-4	4	P103	1000 (454)
L-Serine, diazoacetate (ester)	115-02-6	4	U015	1 (0.454)
Silver††	7440-22-4	2		1000 (454)
SILVER AND COMPOUNDS	N.A.	2		**
Silver cyanide Ag(CN)	506-64-9	4	P104	1 (0.454)
Silver nitrate	7761-88-8	1		1 (0.454)
Silvex (2,4,5-TP)	93-72-1	1,4	See F027	100 (45.4)
Sodium	7440-23-5	1		10 (4.54)
Sodium arsenate	7631-89-2	1		1 (0.454)
Sodium arsenite	7784-46-5	1		1 (0.454)
Sodium azide	26628-22-8	4	P105	1000 (454)
Sodium bichromate	10588-01-9	1		10 (4.54)
Sodium bifluoride	1333-83-1	1		100 (45.4)
Sodium bisulfite	7631-90-5	1		5000 (2270)
Sodium chromate	7775-11-3	1		10 (4.54)
Sodium cyanide Na(CN)	143-33-9	1,4	P106	10 (4.54)
Sodium dodecylbenzenesulfonate	25155-30-0	1		1000 (454)
Sodium fluoride	7681-49-4	1		1000 (454)

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 TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Sodium hydrosulfide .....	16721-80-5	1		5000 (2270)
Sodium hydroxide .....	1310-73-2	1		1000 (454)
Sodium hypochlorite .....	7681-52-9	1		100 (45.4)
	10022-70-5			
Sodium methylate .....	124-41-4	1		1000 (454)
Sodium nitrite .....	7632-00-0	1		100 (45.4)
Sodium phosphate, dibasic .....	7558-79-4	1		5000 (2270)
	10039-32-4			
	10140-65-5			
Sodium phosphate, tribasic .....	7601-54-9	1		5000 (2270)
	7758-29-4			
	7785-84-4			
	10101-89-0			
	10124-56-8			
	10361-89-4			
Sodium selenite .....	7782-82-3	1		100 (45.4)
	10102-18-8			
Streptozotocin .....	18883-66-4	4	U206	1 (0.454)
Strontrium chromate .....	7789-06-2	1		10 (4.54)
Strychnidin-10-one, & salts .....	57-24-9	1,4	P108	10 (4.54)
Strychnidin-10-one, 2,3-dimethoxy- .....	357-57-3	4	P018	100 (45.4)
Strychnine, & salts .....	57-24-9	1,4	P108	10 (4.54)
Styrene .....	100-42-5	1,3		1000 (454)
Styrene oxide .....	96-09-3	3		100 (45.4)
Sulfuric acid .....	7664-93-9	1		1000 (454)
	8014-95-7			
Sulfuric acid, dimethyl ester .....	77-78-1	3,4	U103	100 (45.4)
Sulfuric acid, dithallium (1+) salt .....	7446-18-6	1,4	P115	100 (45.4)
	10031-59-1			
Sulfur monochloride .....	12771-08-3	1		1000 (454)
Sulfur phosphide .....	1314-80-3	1,4	U189	100 (45.4)
2,4,5-T .....	93-76-5	1,4	See F027	1000 (454)
2,4,5-T acid .....	93-76-5	1,4	See F027	1000 (454)
2,4,5-T amines .....	2008-46-0	1		5000 (2270)
	1319-72-8			
	3813-14-7			
	6369-96-6			
	6369-97-7			
2,4,5-T esters .....	93-79-8	1		1000 (454)
	1928-47-8			
	2545-59-7			
	25168-15-4			
	61792-07-2			
2,4,5-T salts .....	13560-99-1	1		1000 (454)
TCDD .....	1746-01-6	2,3		1 (0.454)
TDE .....	72-54-8	1,2,4	U060	1 (0.454)
1,2,4,5-Tetrachlorobenzene .....	95-94-3	4	U207	5000 (2270)
2,3,7,8-Tetrachlorodibenzo-p-dioxin .....	1746-01-6	2,3		1 (0.454)
1,1,1,2-Tetrachloroethane .....	630-20-6	4	U208	100 (45.4)
1,1,2,2-Tetrachloroethane .....	79-34-5	2,3,4	U209	100 (45.4)
Tetrachloroethylene .....	127-18-4	2,3,4	U210	100 (45.4)
2,3,4,6-Tetrachlorophenol .....	58-90-2	4	See F027	10 (4.54)
Tetraethyl pyrophosphate .....	107-49-3	1,4	P111	10 (4.54)
Tetraethyl lead .....	78-00-2	1,4	P110	10 (4.54)
Tetraethylidithiopyrophosphate .....	3689-24-5	4	P109	100 (45.4)
Tetrahydrofuran .....	109-99-9	4	U213	1000 (454)
Tetranitromethane .....	509-14-8	4	P112	10 (4.54)
Tetraphosphoric acid, hexaethyl ester .....	757-58-4	4	P062	100 (45.4)
Thallic oxide .....	1314-32-5	4	P113	100 (45.4)
Thallium †† .....	7440-28-0	2		1000 (454)
	N.A.	2		**
THALLIUM AND COMPOUNDS .....				
Thallium (I) acetate .....	563-68-8	4	U214	100 (45.4)
Thallium (I) carbonate .....	6533-73-9	4	U215	100 (45.4)
Thallium chloride TlCl .....	7791-12-0	4	U216	100 (45.4)
Thallium (I) nitrate .....	10102-45-1	4	U217	100 (45.4)
Thallium oxide Tl2O3 .....	1314-32-5	4	P113	100 (45.4)
Thallium (I) selenite .....	12039-52-0	4	P114	1000 (454)
Thallium (I) sulfate .....	7446-18-6	1,4	P115	100 (45.4)
	10031-59-1			

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Thioacetamide .....	62-55-5	4	U218	10 (4.54)
Thiodicarb .....	59669260	4	U410	100 (45.4)
Thiodiphosphoric acid, tetraethyl ester .....	3689-24-5	4	P109	100 (45.4)
Thiofanox .....	39196-18-4	4	P045	100 (45.4)
Thioimidodicarbonic diamide [(H <sub>2</sub> N)C(S)] <sub>2</sub> NH .....	541-53-7	4	P049	100 (45.4)
Thiomethanol .....	74-93-1	1,4	U153	100 (45.4)
Thioperoxydicarbonic diamide [(H <sub>2</sub> N)C(S)] <sub>2</sub> S <sub>2</sub> , tetramethyl-.	137-26-8	4	U244	10 (4.54)
Thiophanate-methyl .....	23564058	4	U409	10 (4.54)
Thiophenol .....	108-98-5	4	P014	100 (45.4)
Thiosemicarbazide .....	79-19-6	4	P116	100 (45.4)
Thiourea .....	62-56-6	4	U219	10 (4.54)
Thiourea, (2-chlorophenyl)- .....	5344-82-1	4	P026	100 (45.4)
Thiourea, 1-naphthalenyl- .....	86-88-4	4	P072	100 (45.4)
Thiourea, phenyl- .....	103-85-5	4	P093	100 (45.4)
Thiram .....	137-26-8	4	U244	10 (4.54)
Tirpate .....	26419738	4	P185	100 (45.4)
Titanium tetrachloride .....	7550-45-0	3		1,2,41000 (454)
Toluene .....	108-88-3	1,2,3,4	U220	1000 (454)
Toluenediamine .....	95-80-7	3,4	U221	10 (4.54)
	496-72-0			
	823-40-5			
2,4-Toluene diamine .....	25376-45-8	3,4	U221	10 (4.54)
	95-80-7			
	496-72-0			
	823-40-5			
Toluene diisocyanate .....	25376-45-8	3,4	U223	100 (45.4)
	91-08-7			
	584-84-9			
2,4-Toluene diisocyanate .....	26471-62-5	3,4	U223	100 (45.4)
	91-08-7			
	584-84-9			
o-Toluidine .....	26471-62-5	3,4		
p-Toluidine .....	95-53-4	3,4	U328	100 (45.4)
o-Toluidine hydrochloride .....	106-49-0	4	U353	100 (45.4)
Toxaphene .....	636-21-5	4	U222	100 (45.4)
2,4,5-TP acid .....	8001-35-2	1,2,3,4	P123	1 (0.454)
2,4,5-TP esters .....	93-72-1	1,4	See F027	100 (45.4)
Triallate .....	32534-95-5	1		100 (45.4)
1H-1,2,4-Triazol-3-amine .....	2303175	4	U389	100 (45.4)
Trichlorfon .....	61-82-5	4	U011	10 (4.54)
1,2,4-Trichlorobenzene .....	52-68-6	1		100 (45.4)
1,1,1-Trichloroethane .....	120-82-1	2,3		100 (45.4)
1,1,2-Trichloroethane .....	71-55-6	2,3,4	U226	1000 (454)
Trichloroethylene .....	79-00-5	2,3,4	U227	100 (45.4)
Trichloromethanesulfenyl chloride .....	79-01-6	1,2,3,4	U228	100 (45.4)
Trichloromonofluoromethane .....	594-42-3	4	P118	100 (45.4)
Trichlorophenol .....	75-69-4	4	U121	5000 (2270)
	25167-82-2	1		10 (4.54)
	15950-66-0			
	933-78-8			
	933-75-5			
	609-19-8			
2,3,4-Trichlorophenol .....	609-19-8			
2,3,5-Trichlorophenol .....	95-95-4	1,3,4	See F027	10 (4.54)
2,3,6-Trichlorophenol .....	88-06-2	1,2,3,4	See F027	10 (4.54)
Triethanolamine dodecylbenzenesulfonate .....	27323-41-7	1		1000 (454)
Triethylamine .....	121-44-8	1,3,4	U404	5000 (2270)
Trifluralin .....	1582-09-8	3		10 (4.54)
Trimethylamine .....	75-50-3	1		100 (45.4)
2,2,4-Trimethylpentane .....	540-84-1	3		1000 (454)
1,3,5-Trinitrobenzene .....	99-35-4	4	U234	10 (4.54)
1,3,5-Trioxane, 2,4,6-trimethyl- .....	123-63-7	4	U182	1000 (454)
Tris(2,3-dibromopropyl) phosphate .....	126-72-7	4	U235	10 (4.54)
Trypan blue .....	72-57-1	4	U236	10 (4.54)
Unlisted Hazardous Wastes Characteristic of Corrosivity ..	N.A.	4	D002	100 (45.4)
Unlisted Hazardous Wastes Characteristic of Ignitability ..	N.A.	4	D001	100 (45.4)
Unlisted Hazardous Wastes Characteristic of Reactivity ..	N.A.	4	D003	100 (45.4)
Unlisted Hazardous Wastes Characteristic of Toxicity:				
Arsenic (D004) .....	N.A.	4	D004	1 (0.454)

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 TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Barium (D005) .....	N.A.	4	D005	1000 (454)
Benzene (D018) .....	N.A.	1,2,3,4	D018	10 (4.54)
Cadmium (D006) .....	N.A.	4	D006	10 (4.54)
Carbon tetrachloride (D019) .....	N.A.	1,2,4	D019	10 (4.54)
Chlordane (D020) .....	N.A.	1,2,4	D020	1 (0.454)
Chlorobenzene (D021) .....	N.A.	1,2,4	D021	100 (45.4)
Chloroform (D022) .....	N.A.	1,2,4	D022	10 (4.54)
Chromium (D007) .....	N.A.	4	D007	10 (4.54)
o-Cresol (D023) .....	N.A.	4	D023	100 (45.4)
m-Cresol (D024) .....	N.A.	4	D024	100 (45.4)
p-Cresol (D025) .....	N.A.	4	D025	100 (45.4)
Cresol (D026) .....	N.A.	4	D026	100 (45.4)
2,4-D (D016) .....	N.A.	1,4	D016	100 (45.4)
1,4-Dichlorobenzene (D027) .....	N.A.	1,2,4	D027	100 (45.4)
1,2-Dichloroethane (D028) .....	N.A.	1,2,4	D028	100 (45.4)
1,1-Dichloroethylene (D029) .....	N.A.	1,2,4	D029	100 (45.4)
2,4-Dinitrotoluene (D030) .....	N.A.	1,2,4	D030	10 (4.54)
Endrin (D012) .....	N.A.	1,4	D012	1 (0.454)
Heptachlor (and epoxide) (D031) .....	N.A.	1,2,4	D031	1 (0.454)
Hexachlorobenzene (D032) .....	N.A.	2,4	D032	10 (4.54)
Hexachlorobutadiene (D033) .....	N.A.	2,4	D033	1 (0.454)
Hexachloroethane (D034) .....	N.A.	2,4	D034	100 (45.4)
Lead (D008) .....	N.A.	4	D008	10 (4.54)
Lindane (D013) .....	N.A.	1,4	D013	1 (0.454)
Mercury (D009) .....	N.A.	4	D009	1 (0.454)
Methoxychlor (D014) .....	N.A.	1,4	D014	1 (0.454)
Methyl ethyl ketone (D035) .....	N.A.	4	D035	5000 (2270)
Nitrobenzene (D036) .....	N.A.	1,2,4	D036	1000 (454)
Pentachlorophenol (D037) .....	N.A.	1,2,4	D037	10 (4.54)
Pyridine (D038) .....	N.A.	4	D038	1000 (454)
Selenium (D010) .....	N.A.	4	D010	10 (4.54)
Silver (D011) .....	N.A.	4	D011	1 (0.454)
Tetrachloroethylene (D039) .....	N.A.	2,4	D039	100 (45.4)
Toxaphene (D015) .....	N.A.	1,4	D015	1 (0.454)
Trichloroethylene (D040) .....	N.A.	1,2,4	D040	100 (45.4)
2,4,5-Trichlorophenol (D041) .....	N.A.	1,4	D041	10 (4.54)
2,4,6-Trichlorophenol (D042) .....	N.A.	1,2,4	D042	10 (4.54)
2,4,5-TP (D017) .....	N.A.	1,4	D017	100 (45.4)
Vinyl chloride (D043) .....	N.A.	2,3,4	D043	1 (0.454)
Uracil mustard .....	66-75-1	4	U237	10 (4.54)
Uranyl acetate .....	541-09-3	1		100 (45.4)
Uranyl nitrate .....	10102-06-4	1		100 (45.4)
Urea, N-ethyl-N-nitroso- .....	36478-76-9			
Urea, N-methyl-N-nitroso- .....	759-73-9	4	U176	1 (0.454)
Urethane .....	684-93-5	3,4	U177	1 (0.454)
Vanadic acid, ammonium salt .....	51-79-6	3,4	U238	100 (45.4)
Vanadium oxide V2O5 .....	7803-55-6	4	P119	1000 (454)
Vanadium pentoxide .....	1314-62-1	1,4	P120	1000 (454)
Vanadyl sulfate .....	1314-62-1	1,4	P120	1000 (454)
Vinyl acetate .....	27774-13-6	1		1000 (454)
Vinyl acetate monomer .....	108-05-4	1,3		5000 (2270)
Vinylamine, N-methyl-N-nitroso- .....	108-05-4	1,3		5000 (2270)
Vinyl bromide .....	4549-40-0	4	P084	10 (4.54)
Vinyl chloride .....	593-60-2	3		100 (45.4)
Vinylidene chloride .....	75-01-4	2,3,4	U043	1 (0.454)
Warfarin, & salts .....	75-35-4	1,2,3,4	U078	100 (45.4)
Xylene .....	81-81-2	4	P001, U248	100 (45.4)
m-Xylene .....	1330-20-7	1,3,4	U239	100 (45.4)
o-Xylene .....	108-38-3	3		1000 (454)
p-Xylene .....	95-47-6	3		1000 (454)
Xylene (mixed) .....	106-42-3	3		100 (45.4)
Xylenes (isomers and mixture) .....	1330-20-7	1,3,4	U239	100 (45.4)
Xylenol .....	1330-20-7	1,3,4	U239	100 (45.4)
Yohimban-16-carboxylic acid,11,17-dimethoxy-18-[ <i>(3,4,5-trimethoxybenzoyl)oxy</i> ]-, methyl ester (3beta,16beta,17alpha, 18beta,20alpha).	50-55-54	1		1000 (454)
Zinc †† .....	7440-66-6	4	U200	5000 (2270)
ZINC AND COMPOUNDS .....	N.A.	2		1000 (454) **

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Zinc acetate .....	557-34-6	1		1000 (454)
Zinc ammonium chloride .....	52628-25-8 14639-97-5 14639-98-6	1		1000 (454)
Zinc, bis(dimethylcarbamodithioato-S,S')- .....	137304	4	P205	10 (4.54)
Zinc borate .....	1332-07-6	1		1000 (454)
Zinc bromide .....	7699-45-8	1		1000 (454)
Zinc carbonate .....	3486-35-9	1		1000 (454)
Zinc chloride .....	7646-85-7	1		1000 (454)
Zinc cyanide Zn(CN)2 .....	557-21-1	1,4	P121	10 (4.54)
Zinc fluoride .....	7783-49-5	1		1000 (454)
Zinc formate .....	557-41-5	1		1000 (454)
Zinc hydrosulfite .....	7779-86-4	1		1000 (454)
Zinc nitrate .....	7779-88-6	1		1000 (454)
Zinc phenolsulfonate .....	127-82-2	1		5000 (2270)
Zinc phosphide Zn3P2 .....	1314-84-7	1,4	P122, U249	100 (45.4)
Zinc silicofluoride .....	16871-71-9	1		5000 (2270)
Zinc sulfate .....	7733-02-0	1		1000 (454)
Ziram .....	137304	4	P205	10 (4.54)
Zirconium nitrate .....	13746-89-9	1		5000 (2270)
Zirconium potassium fluoride .....	16923-95-8	1		1000 (454)
Zirconium sulfate .....	14644-61-2	1		5000 (2270)
Zirconium tetrachloride .....	10026-11-6	1		5000 (2270)
F001 .....		4	F001	10 (4.54)
The following spent halogenated solvents used in degreasing; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the halogenated solvents listed below or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.				
(a) Tetrachloroethylene .....	127-18-4	2,3,4	U210	100 (45.4)
(b) Trichloroethylene .....	79-01-6	1,2,3,4	U228	100 (45.4)
(c) Methylene chloride .....	75-09-2	2,3,4	U080	1000 (454)
(d) 1,1,1-Trichloroethane .....	71-55-6	2,3,4	U226	1000 (454)
(e) Carbon tetrachloride .....	56-23-5	1,2,3,4	U211	10 (4.54)
(f) Chlorinated fluorocarbons .....	N.A.			5000 (2270)
F002 .....		4	F002	10 (4.54)
The following spent halogenated solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the halogenated solvents listed below or those solvents listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.				
(a) Tetrachloroethylene .....	127-18-4	2,3,4	U210	100 (45.4)
(b) Methylene chloride .....	75-09-2	2,3,4	U080	1000 (454)
(c) Trichloroethylene .....	79-01-6	1,2,3,4	U228	100 (45.4)
(d) 1,1,1-Trichloroethane .....	71-55-6	2,3,4	U226	1000 (454)
(e) Chlorobenzene .....	108-90-7	1,2,3,4	U037	100 (45.4)
(f) 1,1,2-Trichloro-1,2,2-trifluoroethane .....	76-13-1			5000 (2270)
(g) o-Dichlorobenzene .....	95-50-1	1,2,4	U070	100 (45.4)
(h) Trichlorofluoromethane .....	75-69-4	4	U121	5000 (2270)
(i) 1,1,2-Trichloroethane .....	79-00-5	2,3,4	U227	100 (45.4)
F003 .....		4	F003	100 (45.4)
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents.				
(a) Xylene .....	1330-20-7			1000 (454)
(b) Acetone .....	67-64-1			5000 (2270)
(c) Ethyl acetate .....	141-78-6			5000 (2270)
(d) Ethylbenzene .....	100-41-4			1000 (454)
(e) Ethyl ether .....	60-29-7			100 (45.4)
(f) Methyl isobutyl ketone .....	108-10-1			5000 (2270)
(g) n-Butyl alcohol .....	71-36-3			5000 (2270)
(h) Cyclohexanone .....	108-94-1			5000 (2270)
(i) Methanol .....	67-56-1			5000 (2270)
F004 .....		4	F004	100 (45.4)
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents:				
(a) Cresols/Cresylic acid .....	1319-77-3	1,3,4	U052	100 (45.4)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
(b) Nitrobenzene .....	98-95-3	1,2,3,4	U169	1000 (454)
F005 .....	.....	4	F005	100 (45.4)
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents:				
(a) Toluene .....	108-88-3	1,2,3,4	U220	1000 (454)
(b) Methyl ethyl ketone .....	78-93-3	3,4	U159	5000 (2270)
(c) Carbon disulfide .....	75-15-0	1,3,4	P022	100 (45.4)
(d) Isobutanol .....	78-83-1	4	U140	5000 (2270)
(e) Pyridine .....	110-86-1	4	U196	1000 (454)
F006 .....	.....	4	F006	10 (4.54)
Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum, (2) tin plating on carbon steel, (3) zinc plating (segregated basis) on carbon steel, (4) aluminum or zinc-aluminum plating on carbon steel, (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel, and (6) chemical etching and milling of aluminum.				
F007 .....	.....	4	F007	10 (4.54)
Spent cyanide plating bath solutions from electroplating operations.				
F008 .....	.....	4	F008	10 (4.54)
Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.				
F009 .....	.....	4	F009	10 (4.54)
Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.				
F010 .....	.....	4	F010	10 (4.54)
Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.				
F011 .....	.....	4	F011	10 (4.54)
Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.				
F012 .....	.....	4	F012	10 (4.54)
Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.				
F019 .....	.....	4	F019	10 (4.54)
Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process. Wastewater treatment sludges from the manufacturing of motor vehicles using a zinc phosphating process will not be subject to this listing at the point of generation if the wastes are not placed outside on the land prior to shipment to a landfill for disposal and are either: disposed in a Subtitle D municipal or industrial landfill unit that is equipped with a single clay liner and is permitted, licensed or otherwise authorized by the state; or disposed in a landfill unit subject to, or otherwise meeting, the landfill requirements in § 258.40, § 264.301 or § 265.301. For the purposes of this listing, motor vehicle manufacturing is defined in § 261.31(b)(4)(i) and § 261.31(b)(4)(ii) describes the recordkeeping requirements for motor vehicle manufacturing facilities				
F020 .....	.....	4	F020	1 (0.454)
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of hexachlorophene from highly purified 2,4,5-trichlorophenol.)				
F021 .....	.....	4	F021	1 (0.454)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol or of intermediates used to produce its derivatives.				
F022 .....		4 F022		1 (0.454)
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.				
F023 .....		4 F023		1 (0.454)
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)				
F024 .....		4 F024		1 (0.454)
Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in 40 CFR 261.31 or 261.32.)				
F025 .....		4 F025		1 (0.454)
Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.				
F026 .....		4 F026		1 (0.454)
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.				
F027 .....		4 F027		1 (0.454)
Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)				
F028 .....		4 F028		1 (0.454)
Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.				
F032 .....		4 F032		1 (0.454)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with § 261.35 of this chapter or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes ( <i>i.e.</i> , F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.				
F034 .....		4	F034	1 (0.454)
Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.		4	F035	1 (0.454)
F035 .....		4	F037	1 (0.454)
Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.				
F037 .....				
Petroleum refinery primary oil/water/solids separation sludge—Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in § 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under § 261.4(a)(12)(i), if those residuals are to be disposed of.				
F038 .....		4	F038	1 (0.454)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Petroleum refinery secondary (emulsified) oil/water/solids separation sludge—Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in § 261.31(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing.				
F039 .....		4	F039	1 (0.454)
Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of 40 CFR part 261. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other hazardous wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.)				
K001 .....		4	K001	1 (0.454)
Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.				
K002 .....		4	K002	10 (4.54)
Wastewater treatment sludge from the production of chrome yellow and orange pigments.				
K003 .....		4	K003	10 (4.54)
Wastewater treatment sludge from the production of molybdate orange pigments.				
K004 .....		4	K004	10 (4.54)
Wastewater treatment sludge from the production of zinc yellow pigments.				
K005 .....		4	K005	10 (4.54)
Wastewater treatment sludge from the production of chrome green pigments.				
K006 .....		4	K006	10 (4.54)
Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).				
K007 .....		4	K007	10 (4.54)
Wastewater treatment sludge from the production of iron blue pigments.				
K008 .....		4	K008	10 (4.54)
Oven residue from the production of chrome oxide green pigments.				
K009 .....		4	K009	10 (4.54)
Distillation bottoms from the production of acetaldehyde from ethylene.				
K010 .....		4	K010	10 (4.54)
Distillation side cuts from the production of acetaldehyde from ethylene.				
K011 .....		4	K011	10 (4.54)
Bottom stream from the wastewater stripper in the production of acrylonitrile.				
K013 .....		4	K013	10 (4.54)
Bottom stream from the acetonitrile column in the production of acrylonitrile.				
K014 .....		4	K014	5000 (2270)
Bottoms from the acetonitrile purification column in the production of acrylonitrile.				
K015 .....		4	K015	10 (4.54)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Still bottoms from the distillation of benzyl chloride. K016 .....	.....	4	K016	1 (0.454)
Heavy ends or distillation residues from the production of carbon tetrachloride. K017 .....	.....	4	K017	10 (4.54)
Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin. K018 .....	.....	4	K018	1 (0.454)
Heavy ends from the fractionation column in ethyl chloride production. K019 .....	.....	4	K019	1 (0.454)
Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production. K020 .....	.....	4	K020	1 (0.454)
Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production. K021 .....	.....	4	K021	10 (4.54)
Aqueous spent antimony catalyst waste from fluoromethanes production. K022 .....	.....	4	K022	1 (0.454)
Distillation bottom tars from the production of phenol/acetone from cumene. K023 .....	.....	4	K023	5000 (2270)
Distillation light ends from the production of phthalic anhydride from naphthalene. K024 .....	.....	4	K024	5000 (2270)
Distillation bottoms from the production of phthalic anhydride from naphthalene. K025 .....	.....	4	K025	10 (4.54)
Distillation bottoms from the production of nitrobenzene by the nitration of benzene. K026 .....	.....	4	K026	1000 (454)
Stripping still tails from the production of methyl ethyl pyridines. K027 .....	.....	4	K027	10 (4.54)
Centrifuge and distillation residues from toluene diisocyanate production. K028 .....	.....	4	K028	1 (0.454)
Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane. K029 .....	.....	4	K029	1 (0.454)
Waste from the product steam stripper in the production of 1,1,1-trichloroethane. K030 .....	.....	4	K030	1 (0.454)
Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene. K031 .....	.....	4	K031	1 (0.454)
By-product salts generated in the production of MSMA and cacodylic acid. K032 .....	.....	4	K032	10 (4.54)
Wastewater treatment sludge from the production of chlordane. K033 .....	.....	4	K033	10 (4.54)
Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane. K034 .....	.....	4	K034	10 (4.54)
Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane. K035 .....	.....	4	K035	1 (0.454)
Wastewater treatment sludges generated in the production of creosote. K036 .....	.....	4	K036	1 (0.454)
Still bottoms from toluene reclamation distillation in the production of disulfoton. K037 .....	.....	4	K037	1 (0.454)
Wastewater treatment sludges from the production of disulfoton. K038 .....	.....	4	K038	10 (4.54)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Wastewater from the washing and stripping of phorate production.				
K039 .....		4	K039	10 (4.54)
Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.				
K040 .....		4	K040	10 (4.54)
Wastewater treatment sludge from the production of phorate.				
K041 .....		4	K041	1 (0.454)
Wastewater treatment sludge from the production of toxaphene.				
K042 .....		4	K042	10 (4.54)
Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.				
K043 .....		4	K043	10 (4.54)
2,6-Dichlorophenol waste from the production of 2,4-D.				
K044 .....		4	K044	10 (4.54)
Wastewater treatment sludges from the manufacturing and processing of explosives.				
K045 .....		4	K045	10 (4.54)
Spent carbon from the treatment of wastewater containing explosives.				
K046 .....		4	K046	10 (4.54)
Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.				
K047 .....		4	K047	10 (4.54)
Pink/red water from TNT operations.				
K048 .....		4	K048	10 (4.54)
Dissolved air flotation (DAF) float from the petroleum refining industry.				
K049 .....		4	K049	10 (4.54)
Slop oil emulsion solids from the petroleum refining industry.				
K050 .....		4	K050	10 (4.54)
Heat exchanger bundle cleaning sludge from the petroleum refining industry.				
K051 .....		4	K051	10 (4.54)
API separator sludge from the petroleum refining industry.				
K052 .....		4	K052	10 (4.54)
Tank bottoms (leaded) from the petroleum refining industry.				
K060 .....		4	K060	1 (0.454)
Ammonia still lime sludge from coking operations.				
K061 .....		4	K061	10 (4.54)
Emission control dust/sludge from the primary production of steel in electric furnaces.				
K062 .....		4	K062	10 (4.54)
Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).				
K064 .....		4	K064	10 (4.54)
Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.				
K065 .....		4	K065	10 (4.54)
Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.				
K066 .....		4	K066	10 (4.54)
Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.				
K069 .....		4	K069	10 (4.54)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Emission control dust/sludge from secondary lead smelting. (Note: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action effecting the stay, EPA will publish a notice of the action in the FEDERAL REGISTER.)				
K071 .....	.....	4	K071	1 (0.454)
Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.	.....	4	K073	10 (4.54)
K073 .....	.....	4	K073	10 (4.54)
Chlorinated hydrocarbon waste from the purification step of the diaphragm cellprocess using graphite anodes in chlorine production.	.....	4	K083	100 (45.4)
K083 .....	.....	4	K084	1 (0.454)
Distillation bottoms from aniline production.	.....	4	K085	10 (4.54)
K084 .....	.....	4	K086	10 (4.54)
Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	.....	4	K087	100 (45.4)
K085 .....	.....	4	K088	10 (4.54)
Distillation or fractionation column bottoms from the production of chlorobenzenes.	.....	4	K089	10 (4.54)
K086 .....	.....	4	K090	10 (4.54)
Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.	.....	4	K091	10 (4.54)
K087 .....	.....	4	K093	5000 (2270)
Decanter tank tar sludge from coking operations.	.....	4	K094	5000 (2270)
K088 .....	.....	4	K095	100 (45.4)
Spent potliners from primary aluminum reduction.	.....	4	K096	100 (45.4)
K090 .....	.....	4	K097	1 (0.454)
Emission control dust or sludge from ferrochromiumsilicon production.	.....	4	K098	1 (0.454)
K091 .....	.....	4	K099	10 (4.54)
Emission control dust or sludge from ferrochromium production.	.....	4	K100	10 (4.54)
K093 .....	.....	4	K101	1 (0.454)
Distillation light ends from the production of phthalic anhydride from ortho-xylene.	.....	4	K102	1 (0.454)
K094 .....	.....			
Distillation bottoms from the production of phthalic anhydride from ortho-xylene.	.....			
K095 .....	.....			
Distillation bottoms from the production of 1,1,1-trichloroethane.	.....			
K096 .....	.....			
Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.	.....			
K097 .....	.....			
Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.	.....			
K098 .....	.....			
Untreated process wastewater from the production of toxaphene.	.....			
K099 .....	.....			
Untreated wastewater from the production of 2,4-D.	.....			
K100 .....	.....			
Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	.....			
K101 .....	.....			
Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	.....			
K102 .....	.....			

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.				
K103 .....	.....	4	K103	100 (45.4)
Process residues from aniline extraction from the production of aniline.				
K104 .....	.....	4	K104	10 (4.54)
Combined wastewater streams generated from nitrobenzene/aniline production.				
K105 .....	.....	4	K105	10 (4.54)
Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.				
K106 .....	.....	4	K106	1 (0.454)
Wastewater treatment sludge from the mercury cell process in chlorine production.				
K107 .....	.....	4	K107	10 (4.54)
Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.				
K108 .....	.....	4	K108	10 (4.54)
Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.				
K109 .....	.....	4	K109	10 (4.54)
Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.				
K110 .....	.....	4	K110	10 (4.54)
Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.				
K111 .....	.....	4	K111	10 (4.54)
Product washwaters from the production of dinitrotoluene via nitration of toluene.				
K112 .....	.....	4	K112	10 (4.54)
Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K113 .....	.....	4	K113	10 (4.54)
Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K114 .....	.....	4	K114	10 (4.54)
Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K115 .....	.....	4	K115	10 (4.54)
Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K116 .....	.....	4	K116	10 (4.54)
Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.				
K117 .....	.....	4	K117	1 (0.454)
Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.				
K118 .....	.....	4	K118	1 (0.454)
Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.				
K123 .....	.....	4	K123	10 (4.54)
Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebis(thiocarbamic acid and its salts).				
K124 .....	.....	4	K124	10 (4.54)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts. K125 .....	.....	4	K125	10 (4.54)
Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts. K126 .....	.....	4	K126	10 (4.54)
Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts. K131 .....	.....	4	K131	100 (45.4)
Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide. K132 .....	.....	4	K132	1000 (454)
Spent absorbent and wastewater separator solids from the production of methyl bromide. K136 .....	.....	4	K136	1 (0.454)
Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene. K141 .....	.....	4	K141	1 (0.454)
Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludges from coking operations). K142 .....	.....	4	K142	1 (0.454)
Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal. K143 .....	.....	4	K143	1 (0.454)
Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal. K144 .....	.....	4	K144	1 (0.454)
Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal. K145 .....	.....	4	K145	1 (0.454)
Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal. K147 .....	.....	4	K147	1 (0.454)
Tar storage tank residues from coal tar refining. K148 .....	.....	4	K148	1 (0.454)
Residues from coal tar distillation, including, but not limited to, still bottoms. K149 .....	.....	4	K149	10 (4.54)
Distillation bottoms from the production of alpha-(or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. [This waste does not include still bottoms from the distillation of benzyl chloride.] K150 .....	.....	4	K150	10 (4.54)
Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha-(or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. K151 .....	.....	4	K151	10 (4.54)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
K156 ..... Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of waste-waters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	.....	4	K156	10 (4.54)
K157 ..... Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	.....	4	K157	10 (4.54)
K158 ..... Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	.....	4	K158	10 (4.54)
K159 ..... Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	.....	4	K159	10 (4.54)
K160 ..... Organics from the treatment of thiocarbamate wastes.	.....	4	K160	1 (0.454)
K161 ..... Purification solids (including filtration, evaporation, and centrifugation solids), bag-house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126.)	.....	4	K161	1 (0.454)
K169! ..... Crude oil storage tank sediment from petroleum refining operations.	.....	4	K169	10 (4.54)
K170! ..... Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.	.....	4	K170	1 (0.454)
K171! ..... Spent hydrotreating catalyst from petroleum refining operations. (This listing does not include inert support media.)	.....	4	K171	1 (0.454)
K172! ..... Spent hydrorefining catalyst from petroleum refining operations. (This listing does not include inert support media.)	.....	4	K172	1 (0.454)
K174! ..... Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony metal or crude antimony oxide)	.....	4	K174	1 (0.454)
K175! ..... K176. Slag from the production of antimony oxide that is speculatively accumulated or disposed, including slag from the production of intermediates (e.g., antimony metal or crude antimony oxide)	.....	4	K175	1 (0.454)
K177. Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process.	.....	4	K176	1 (0.454)
K178 ..... Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process.	.....	4	K177	5,000 (2270)
K179 ..... Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process.	.....	4	K178	1000 (454)
K180 ..... Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process.	.....	4	K181	##

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**  
 [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
Nonwastewaters from the production of dyes and/or pigments (including nonwastewaters commingled at the point of generation with nonwastewaters from other processes) that, at the point of generation, contain mass loadings of any of the constituents identified in paragraph (c) of section 261.32 that are equal to or greater than the corresponding paragraph (c) levels, as determined on a calendar year basis				

† Indicates the statutory source defined by 1, 2, 3, and 4, as described in the note preceding Table 302.4.

‡ Indicates the statutory source defined by 1, 2, 3, and 4, as described in the note preceding Table 302.4.

†† No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers (0.004 inches).

††† The RQ for asbestos is limited to friable forms only.

## The Agency may adjust the statutory RQ for this hazardous substance in a future rulemaking; until then the statutory one-pound RQ applies.

§ The adjusted RQs for radionuclides may be found in Appendix B to this table.

\*\* Indicates that no RQ is being assigned to the generic or broad class.

ª Benzene was already a CERCLA hazardous substance prior to the CAA Amendments of 1990 and received an adjusted 10-pound RQ based on potential carcinogenicity in an August 14, 1989, final rule (54 FR 33418). The CAA Amendments specify that "benzene (including benzene from gasoline)" is a hazardous air pollutant and, thus, a CERCLA hazardous substance.

ª The CAA Amendments of 1990 list DDE (3547-04-4) as a CAA hazardous air pollutant. The CAS number, 3547-04-4, is for the chemical, p,p'-dichlorodiphenylethane. DDE or p,p'-dichlorodiphenylchloroethylene, CAS number 72-55-9, is already listed in Table 302.4 with a final RQ of 1 pound. The substance identified by the CAS number 3547-04-4 has been evaluated and listed as DDE to be consistent with the CAA section 112 listing, as amended.

ª Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.

ªIncludes mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OR' where:

n = 1, 2, or 3;

R = alkyl C<sub>7</sub> or less; or

R = phenyl or alkyl substituted phenyl;

R' = H or alkyl C<sub>7</sub> or less; or

OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.

ª Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 °C.

ª See 40 CFR 302.6(b)(1) for application of the mixture rule to this hazardous waste.

**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES**

CASRN	Hazardous substance
50000	Formaldehyde.
50077	Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8-[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a, 8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1alpha,8beta,8alpha,8balpha)]-Mitomycin C.
50180	Cyclophosphamide. 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide.
50293	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-.DDT. 4,4'-DDT.
50328	Benzo[a]pyrene. 3,4-Benzopyrene.
50555	Reserpine. Yohimban-16-carboxylic acid,11,17-dimethoxy-18-[(3',4,5-trimethoxybenzoyl)oxy]-, methyl ester (3beta,16beta,17alpha,18beta,20alpha)-.
51285	Phenol, 2,4-dinitro-. 2,4-Dinitrophenol.
51434	Epinephrine. 1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl].
51796	Carbamic acid, ethyl ester. Ethyl carbamate. Urethane.

**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
52686	Trichlorfon.
52857	Famphur.
53703	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester. Dibenzo[a,h]anthracene. Dibenzo[a,h]anthracene.
53963	1,2,5,6-Dibenzanthracene-2-yl- Acetamide, N-9H-fluoren-2-yl- 2-Acetylaminofluorene.
54115	Nicotine, & salts.
55185	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts. Ethanamine, N-ethyl-N-nitroso-.
55630	N-Nitrosodiethylamine. Nitroglycerine.
55914	1,2,3-Propanetriol, trinitrate. Diisopropylfluorophosphate (DFP). Phosphorofluoridic acid, bis(1-methylethyl)ester.
56042	Methylthiouracil. 4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-.
56235	Carbon tetrachloride.
56382	Methane, tetrachloro- Parathion.
56495	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester. Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-3-Methylcholanthrene.

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**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
56531	Diethylstibestrol.
56553	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediy)bis-, (E).
	Benz[a]anthracene.
	Benz[a]anthracene.
56724	1,2-Benzanthracene.
57147	Coumaphos.
57249	Hydrazine, 1,1-dimethyl-.
	1,1-Dimethylhydrazine.
57476	Strychnidin-10-one, & salts.
	Strychnine, & salts.
	Physostigmine.
	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-.
57578	beta-Propiolactone.
57647	Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1).
	Physostigmine salicylate.
57749	Chlordane.
	Chlordane, alpha & gamma isomers.
	CHLORDANE (TECHNICAL MIXTURE AND METABOLITES).
57976	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-.
	Benz[a]anthracene, 7,12-dimethyl-.
58899	7,12-Dimethylbenz[a]anthracene.
	$\gamma$ -BHC.
	Cyclohexane, 1,2,3,4,5,6-hexachloro-(1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-.
	Lindane.
	Lindane (all isomers).
58902	Phenol, 2,3,4,6-tetrachloro-.
59507	2,3,4,6-Tetrachlorophenol.
	p-Chloro-m-cresol.
	Phenol, 4-chloro-3-methyl-.
59892	N-Nitrosomorpholine.
60004	Ethylenediamine-tetraacetic acid (EDTA).
60117	Benzene, N,N-dimethyl-4-(phenylazo)-.
	Dimethyl aminoazobenzene.
60297	p-Dimethylaminoazobenzene.
	Ethane, 1,1'-oxybis-.
60344	Ethyl ether.
60355	Hydrazine, methyl-.
	Methyl hydrazine.
60515	Acetamide.
	Dimethoate.
	Phosphorodithioic acid, O,O-dimethyl S-[2(methylamino)-2-oxoethyl] ester.
60571	Dieldrin.
	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2, 2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2alpha,3alpha,6alpha,6beta,7beta,7aalpha)-.
61825	Anitrole.
	1H-1,2,4-Triazol-3-amine.
62384	Mercury, (acetato-O)phenyl-.
	Phenylmercury acetate.
62442	Acetamide, N-(4-ethoxyphenyl)-.
	Phenacetin.
62500	Ethyl methanesulfonate.
	Methanesulfonic acid, ethyl ester.
62533	Aniline.
	Benzenamine.
62555	Ethanethioamide.
	Thioacetamide.
62566	Thiourea.
62737	Dichlorvos.

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**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
62748	Acetic acid, fluoro-, sodium salt.
	Fluoroacetic acid, sodium salt.
62759	Methanamine, N-methyl-N-nitroso-.
	N-Nitrosodimethylamine.
63252	Carbaryl.
	1-Naphthalenol, methylcarbamate.
64006	m-Cumanyl methylcarbamate.
	3-Isopropylphenyl N-methylcarbamate.
	Phenol, 3-(1-methylethyl)-, methyl carbamate.
64006	Phenol, 3-(1-methylethyl)-, methyl carbamate (m-Cumanyl methylcarbamate).
64186	Formic acid.
64197	Acetic acid.
64675	Diethyl sulfate.
65850	Benzoic acid.
66751	Uracil mustard.
	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl) amino]-.
67561	Methanol.
	Methyl alcohol.
67641	Acetone.
67663	2-Propanone.
	Chloroform.
67721	Methane, trichloro-.
	Ethane, hexachloro-.
	Hexachloroethane.
68122	Dimethylformamide.
70257	Guanidine, N-methyl-N'-nitro-N-nitroso-MNNG.
70304	Hexachlorophene.
	Phenol, 2,2'-methylenebis[3,4,6-tri-chloro-.
71363	n-Butyl alcohol.
	1-Butanol.
71432	Benzene.
71556	Ethane, 1,1,1-trichloro-.
	Methyl chloroform.
	1,1,1-Trichloroethane.
72208	Endrin.
	Endrin, & metabolites.
	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2, 2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2alpha,3alpha,6alpha,6beta,7beta,7aalpha)-, & metabolites.
72435	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-.
	Methoxychlor.
72548	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-.
	DDD.
	TDE.
72559	4,4'-DDD.
	DDE.
	4,4'-DDE.
72571	Trypan blue.
	2,7-Naphthalenedisulfonic acid, 3,3'-(3,3'-dimethyl-1'-biphenyl)-4,4'-diyl)-bis(azo)bis(5-amino-4-hydroxy)-tetrasodium salt.
74839	Bromomethane.
	Methane, bromo-.
	Methyl bromide.
74873	Chloromethane.
	Methane, chloro-.
	Methyl chloride.
74884	Iodomethane
	Methane, iodo-.
	Methyl iodide.
74895	Monomethylamine.
74908	Hydrocyanic acid.
	Hydrogen cyanide.

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**§ 302.4**
**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
74931	Methanethiol. Methyl mercaptan. Thiomethanol.
74953	Methane, dibromo-. Methylene bromide.
75003	Chloroethane. Ethyl chloride.
75014	Ethene, chloro-.
75047	Vinyl chloride. Monoethylamine.
75058	Acetonitrile.
75070	Acetaldehyde. Ethanal.
75092	Dichloromethane. Methane, dichloro-.
75150	Methylene chloride. Carbon disulfide.
75207	Calcium carbide.
75218	Ethylene oxide. Oxirane.
75252	Bromoform.
75274	Methane, tribromo-.
75343	Dichlorobromomethane. Ethane, 1,1-dichloro-.
75354	Ethyldene dichloride. 1,1-Dichlorethane. Ethene, 1,1-dichloro-.
75365	Vinyldene chloride. 1,1-Dichlorethylene. Acetyl chloride.
75445	Carbonic dichloride. Phosgene.
75503	Trimethylamine.
75558	Aziridine, 2-methyl-. 2-Methyl aziridine. 1,2-Propylenimine.
75569	Propylene oxide.
75605	Arsinic acid, dimethyl-.
75649	Cacodylic acid. tert-Butylamine.
75694	Methane, trichlorofluoro-.
75718	Trichloromonofluoromethane. Dichlorodifluoromethane.
75865	Methane, dichlorodifluoro-.
75876	Acetone cyanohydrin. Propanenitrile, 2-hydroxy-2-methyl-.
75876	2-Methyllactonitrile.
75876	Acetaldehyde, trichloro-.
75876	Chloral.
75990	2,2-Dichloropropionic acid.
76017	Ethane, pentachloro-.
76448	Pentachloroethane. Heptachlor.
77474	4,7-Methano-1H-indene, heptachloro-3a,4,7,7a-tetrahydro-.
77781	Hexachlorocyclopentadiene. 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexa- chloro-.
78002	Dimethyl sulfate. Sulfuric acid, dimethyl ester.
78002	Plumbane, tetraethyl-.
78591	Tetraethyl lead.
78795	Isophorone.
78819	Isoprene.
78831	iso-Butylamine. Isobutyl alcohol.
78875	1-Propanol, 2-methyl-.
78875	Propane, 1,2-dichloro-.
78875	Propylene dichloride. 1,2-Dichloropropane.
78886	2,3-Dichloropropene.

**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
78933	2-Butanone. MEK.
78999	Methyl ethyl ketone.
79005	1,1-Dichloropropane.
79016	Ethane, 1,1,2-trichloro-.
79016	1,1,2-Trichloroethane.
79061	Ethene, trichloro-.
79061	Trichloroethylene.
79094	Acrylamide.
79107	2-Propenamide.
79107	Propionic acid.
79118	Acrylic acid.
79196	Chloroacetic acid.
79221	Hydrazinecarbothioamide.
79221	Thiosemicarbazide.
79221	Carbochloridic acid, methyl ester.
79312	Methyl chlorocarbonate.
79345	iso-Butyric acid.
79345	Ethane, 1,1,2,2-tetrachloro-.
79447	1,1,2,2-Tetrachloroethane.
79447	Carbamic chloride, dimethyl-.
79469	Dimethylcarbamoyl chloride.
80159	Propane, 2-nitro-.
80159	2-Nitropropane.
80626	alpha,alpha-Dimethylbenzylhydroperoxide.
80626	Hydroperoxide, 1-methyl-1-phenylethyl-.
80626	Methyl methacrylate.
81072	2-Propenoic acid, 2-methyl-, methyl ester.
81072	Saccharin, & salts.
81812	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts.
82688	Warfarin, & salts.
83329	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts.
84662	Benzene, pentachloronitro-.
84662	PCNB.
84742	Pentachloronitrobenzene.
84742	Quintobenzene.
85007	Acenaphthene.
85007	Diethyl phthalate.
85007	1,2-Benzenedicarboxylic acid, diethyl ester.
85018	Di-n-butyl phthalate.
85449	Diethyl phthalate.
85449	1,2-Benzenedicarboxylic acid, dibutyl ester.
85449	Diquat.
85687	Phenanthrene.
85687	Phthalic anhydride.
86306	1,3-Isobenzofuran-2-one.
86306	Butyl benzyl phthalate.
86500	N-Nitrosodiphenylamine.
86500	Guthion.
86737	Fluorene.
86884	alpha-Naphthylthiourea.
87650	Thiourea, 1-naphthalenyl-.
87650	Phenol, 2,6-dichloro-.
87683	2,6-Dichlorophenol.
87683	Hexachlorobutadiene.
87865	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-.
88062	Pentachlorophenol.
88062	Phenol, pentachloro-.
88062	Phenol, 2,4,6-trichloro-.
88722	2,4,6-Trichlorophenol.
88755	o-Nitrotoluene.
88755	o-Nitrophenol.
88857	2-Nitrophenol.
88857	Dinoseb.
90040	Phenol, 2-(1-methylpropyl)-4,6-dinitro-.
90040	o-Anisidine.

**§ 302.4**

**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
91087	Benzene, 1,3-diisocyanatomethyl-. Toluene diisocyanate. 2,4-Toluene diisocyanate.
91203	Naphthalene.
91225	Quinoline.
91587	beta-Chloronaphthalene. Naphthalene, 2-chloro-. 2-Chloronaphthalene.
91598	beta-Naphthylamine. 2-Naphthalenamine.
91667	N,N-Diethylaniline.
91805	Methaprylene. 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'. (2-thienylmethyl)-. [1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro-. 3,3'-Dichlorobenzidine.
92524	Biphenyl.
92671	4-Aminobiphenyl.
92875	Benzidine. [1,1'-Biphenyl]-4,4'-diamine.
92933	4-Nitrobiphenyl. Propanoic acid, 2-(2,4,5-trichlorophenoxy)-. Silvex (2,4,5-TP). 2,4,5-TP acid.
93765	Acetic acid, (2,4,5-trichlorophenoxy)-. 2,4,5-T.
93721	2,4,5-T acid.
93798	2,4,5-T esters.
94111	2,4-D Ester.
94586	Dihydrosafrole.
94597	1,3-Benzodioxole, 5-propyl-. Safrole.
94791	1,3-Benzodioxole, 5-(2-propenyl)-.
94804	2,4-D Ester.
95476	o-Xylene.
95487	o-Cresol.
95501	Benzene, 1,2-dichloro-. o-Dichlorobenzene.
95534	1,2-Dichlorobenzene. Benzanine, 2-methyl-. o-Toluidine.
95578	o-Chlorophenol. Phenol, 2-chloro-. 2-Chlorophenol.
95807	Benzenediamine, ar-methyl-. Toluenediamine. 2,4-Toluene diamine.
95943	Benzene, 1,2,4,5-tetrachloro-. 1,2,4,5-Tetrachlorobenzene.
95954	Phenol, 2,4,5-trichloro-. 2,4,5-Trichlorophenol.
96093	Styrene oxide.
96128	Propane, 1,2-dibromo-3-chloro-. 1,2-Dibromo-3-chloropropane.
96457	Ethylenethiourea. 2-Imidazolidinethione.
97632	Ethyl methacrylate. 2-Propenoic acid, 2-methyl-, ethyl ester.
98011	Furfural. 2-Furancarboxaldehyde.
98077	Benzene, (trichloromethyl)-. Benzotrichloride.
98099	Benzenesulfonic acid chloride.
98828	Benzene, (1-methylethyl)-. Cumene.
98862	Acetophenone. Ethanone, 1-phenyl-.
98873	Benzal chloride.

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**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
98884	Benzene, (dichloromethyl)-.
98953	Benzoyl chloride.
99081	Benzene, nitro-.
99354	Nitrobenzene. m-Nitrotoluene.
99558	Benzene, 1,3,5-trinitro-. 1,3,5-Trinitrobenzene.
99650	Benzenamine, 2-methyl-5-nitro-. 5-Nitro-o-toluidine.
99990	m-Dinitrobenzene.
100016	p-Nitrotoluene.
100027	Benzenamine, 4-nitro-. p-Nitroaniline.
100414	p-Nitrophenol.
100425	Phenol, 4-nitro-. 4-Nitrophenol.
100447	p-Dinitrobenzene.
100470	Ethylbenzene.
100754	Styrene.
101144	Benzene, (chloromethyl)-.
101279	Benzyl chloride.
101553	Benzonitrile.
101779	N-Nitrosopiperidine.
103855	Piperidine, 1-nitroso-. Benzenamine, 4,4'-methylenebis[2-chloro-4,4'-Methylenebis(2-chloroaniline).
105679	Barban.
106423	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester.
106445	Benzene, 1-bromo-4-phenoxy-.
106464	4-Bromophenyl phenyl ether.
106467	MDI.
106488	Methylene diphenyl diisocyanate.
106490	4,4'-Methylenedianiline.
106569	Phenylthiourea.
106623	Thiourea, phenyl-.
106645	sec-Butyl acetate.
106647	Phenol, 2,4-dimethyl-.
106648	2,4-Dimethylphenol.
106649	p-Xylene.
106650	p-Cresol.
106647	Benzene, 1,4-dichloro-.
106648	p-Dichlorobenzene.
106649	1,4-Dichlorobenzene.
106650	Benzenamine, 4-chloro-.
106651	p-Chloroaniline.
106652	Benzenamine, 4-methyl-.
106653	p-Toluidine.
106654	p-Phenylenediamine.
106655	p-Benzoquinone.
106656	2,5-Cyclohexadiene-1,4-dione.
106657	Quinone.
106687	1,2-Epoxybutane.
106698	1-Chloro-2,3-epoxypropane.
106702	Epichlorohydrin.
106934	Oxirane, (chloromethyl)-.
106935	Dibromoethane.
107051	Ethane, 1,2-dibromo-.
107062	Ethylene dibromide.
107108	1,2-Dichloroethane.
107109	n-Propylamine.
107120	1-Propanamine.
107121	Ethyl cyanide.
107122	Propanenitrile.

## Environmental Protection Agency

### APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZ- ARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
107131	Acrylonitrile.
107153	2-Propenenitrile.
107186	Ethylenediamine.
107186	Allyl alcohol.
107197	2-Propen-1-ol.
107200	Propargyl alcohol.
107200	2-Propyn-1-ol.
107200	Acetaldehyde, chloro-
107200	Chloroacetaldehyde.
107211	Ethylene glycol.
107302	Chloromethyl methyl ether.
107302	Methane, chloromethoxy-.
107493	Diphosphoric acid, tetraethyl ester.
107926	Tetraethyl pyrophosphate.
108054	Butyne acid.
108101	Vinyl acetate.
108101	Vinyl acetate monomer.
108101	Hexone.
108101	Methyl isobutyl ketone.
108247	4-Methyl-2-pentanone.
108316	Acetic anhydride.
108316	Maleic anhydride.
108383	2,5-Furandione.
108394	m-Xylene.
108463	m-Cresol.
108463	Resorcinol.
108601	1,3-Benzenediol.
108883	Dichloroisopropyl ether.
108883	Propane, 2,2'-oxybis[2-chloro-.
108883	Benzene, methyl-.
108907	Toluene.
108907	Benzene, chloro-.
108941	Chlorobenzene.
108952	Cyclohexanone.
108985	Phenol.
109068	Benzenethiol.
109068	Thiophenol.
109739	Pyridine, 2-methyl-.
109773	2-Picoline.
109897	Butylamine.
109999	Malononitrile.
109999	Propanenitrile.
110009	Diethylamine.
110009	Furan, tetrahydro-.
110009	Tetrahydrofuran.
110009	Furan.
110167	Furfuran.
110167	Maleic acid.
110178	Fumaric acid.
110190	iso-Butyl acetate.
110543	Hexane.
110758	Ethene, (2-chloroethoxy)-.
110805	2-Chloroethyl vinyl ether.
110805	Ethanol, 2-ethoxy-.
110827	Ethylene glycol monoethyl ether.
110827	Benzene, hexahydro-.
110861	Cyclohexane.
111422	Pyridine.
111444	Diethanolamine.
111444	Bis(2-chloroethyl) ether.
111546	Dichloroethyl ether.
111546	Ethane, 1,1'-oxybis[2-chloro-.
111546	Carbamodithioic acid, 1,2-ethanediylibis-, salts & esters.
111911	Ethylenebisdithiocarbamic acid, salts & esters.
111911	Bis(2-chloroethoxy) methane.
111911	Dichloromethoxyethane.
114261	Ethane, 1,1'-(methylenebis(oxo))bis(2-chloro-.
114261	Phenol, 2-(1-methylethoxy)-, methylcarbamate.
114261	Propoxur (Baygon).

## § 302.4

### APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZ- ARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
115026	Azaserine.
115297	L-Serine, diazoacetate (ester).
115322	Endosulfan.
116063	6,9-Methano-2,4,3-benzodioxathiepin,
116063	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-
116063	hexahydro-, 3-oxide.
116063	Dicofol.
116063	Aldicarb.
117806	Propanal, 2-methyl-2-(methylthio)-, O-
117817	[(methylamino)carbonyl]oxime.
117840	Dichlorene.
117840	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)
117840	ester.
117840	Bis(2-ethylhexyl)phthalate.
118741	DEHP.
118741	Diethylhexyl phthalate.
118741	Di-n-octyl phthalate.
118741	1,2-Benzenedicarboxylic acid, dioctyl ester.
118741	Benzene, hexachloro-.
119380	Hexachlorobenzene.
119380	Carbamic acid, dimethyl-, 3-methyl-1-(1-
119380	methylethyl)-1H-pyrazol-5-yl ester.
119904	Isolan.
119904	[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethoxy-.
119937	3,3'-Dimethoxybenzidine.
120127	[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethyl-.
120581	3,3'-Dimethylbenzidine.
120809	Anthracene.
120821	Isosafrole.
120821	1,3-Benzodioxole, 5-(1-propenyl)-.
120821	Catechol.
120832	1,2,4-Trichlorobenzene.
120832	Phenol, 2,4-dichloro-.
121142	2,4-Dichlorophenol.
121142	Benzene, 1-methyl-2,4-dinitro-.
121211	2,4-Dinitrotoluene.
121211	Pyrethrins.
121299	Pyrethrins.
121448	Ethanamine, N,N-diethyl-.
121697	Triethylamine.
121755	N,N-Dimethylaniline.
122098	Malathion.
122098	alpha,alpha-Dimethylphenethylamine.
122429	Benzeneethanamine, alpha,alpha-dimethyl-.
122429	Carbamic acid, phenyl-, 1-methylethyl ester.
122667	Propham.
122667	Hydrazine, 1,2-diphenyl-
123319	1,2-Diphenylhydrazine.
123331	Hydroquinone.
123331	Maleic hydrazide.
123386	3,6-Pyridazinedione, 1,2-dihydro-.
123626	Propionaldehyde.
123626	Propionic anhydride.
123637	Paraldehyde.
123739	1,3,5-Trioxane, 2,4,6-trimethyl-.
123739	Crotonaldehyde.
123864	2-Butenal.
123911	iso-Amyl acetate.
123922	1,4-Diethyleneoxide.
124049	1,4-Dioxane.
124403	Adipic acid.
124403	Dimethylamine.
124414	Methanamine, N-methyl-.
124481	Sodium methylate.
124481	Chlorodibromomethane.
126727	Tris(2,3-dibromopropyl) phosphate.
126987	1-Propanol, 2,3-dibromo-, phosphate (3:1).
126987	Methacrylonitrile.
126987	2-Propenenitrile, 2-methyl-

**§ 302.4**

**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
126998	Chloroprene.
127184	Ethene, tertrachloro-. Perchloroethylene.
127822	Tetrachloroethylene.
129000	Zinc phenolsulfonate.
130154	Pyrene.
131113	1,4-Naphthalenedione.
131748	1,4-Naphthoquinone.
131895	Dimethyl phthalate.
132649	1,2-Benzenedicarboxylic acid, dimethyl ester.
133062	Ammonium picrate.
133904	Phenol, 2,4,6-trinitro-, ammonium salt.
134327	Phenol, 2-cyclohexyl-4,6-dinitro-.
137268	2-Cyclohexyl-4,6-dinitrophenol.
137304	Dibenzofuran.
140885	Captan.
141786	Chloraben.
142289	alpha-Naphthylamine.
142712	1-Naphthalenamine.
142847	Thioperoxydicarbonic diamide ([H2N(C(S)S)2S2, tetramethyl-. Thiram.
143339	Zinc, bis(dimethylcarbamodithioato-S,S').-
143500	Ziram.
145733	Ethyl acrylate.
148823	2-Propenoic acid, ethyl ester.
151508	Acetic acid, ethyl ester.
151564	Ethyl acetate.
152169	1,3-Dichloropropane.
156605	Cupric acetate.
189559	Dipropylamine.
191242	1-Propanamine, N-propyl-.
193395	Sodium cyanide Na(CN).
205992	Kepone.
206440	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2- one,1,1a,3,3a,4,5,5a,5b,6- decachlorooctahydro-.
207089	Endothal.
208968	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid.
218019	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-.
225514	Melphalan.
297972	Potassium cyanide K(CN).
298000	Aziridine.
298022	Ethylenimine.
	Diphosphoramide, octamethyl-. Octamethylpyrophosphoramidate.
	Ethene, 1,2-dichloro- (E).
	1,2-Dichlorethylene.
	Calcium cyanamide.
	Benzo[rst]pentaphene.
	Dibenzo[a,i]pyrene.
	Benzog[hi]perylene.
	Indeno[1,2,3-cd]pyrene.
	Benzo[b]fluoranthene.
	Fluoranthene.
	Benzo(k)fluoranthene.
	Acenaphthylene.
	Chrysene.
	Benz[c]acridine.
	O,O-Diethyl O-pyrazinyl phosphoro- thioate.
	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester.
	Methyl parathion.
	Phosphorothioic acid, O,O-dimethyl O-(4- nitrophenyl) ester.
	Phorate.
	Phosphorodithioic acid, O,O-diethyl S- [(ethylthio) methyl] ester.

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**APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
298044	Disulfoton.
300765	Phosphorodithioic acid, O,O-diethyl S-[2- (ethylthio)ethyl] ester.
301042	Naled.
302012	Acetic acid, lead(2+) salt.
303344	Lead acetate.
305033	Hydrazine.
309002	Lasciocarpine.
311455	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2- (1-methoxyethyl)-3-methyl-1- oxobutoxy)methyl]-2,3,5,7a-tetrahydro-1H- pyrrolizin-1-yl ester, [1S- [1alpha(Z),7(2S*,3R*),7aalpha]]-.
319846	Benzenebutanoic acid, 4-[bis(2- chloroethyl)amino]-.
319857	Chlorambucil.
319868	Aldrin.
329715	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10- hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5abeta,5alpha,8alpha, 8abeta)-.
330541	Diethyldinitrophenol.
333415	Diuron.
334883	Diazinon.
353504	Diazomethane.
357573	Carbon oxyfluoride.
460195	Carbonyl difluoride.
463581	Brucine.
465736	Strychnidin-10-one, 2,3-dimethoxy-.
492808	Cyanogen.
494031	Ethanedinitrile.
496720	Carbonyl sulfide.
504245	Isodrin.
504609	1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10- hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5abeta,8beta, 8abeta)-.
506616	Auramine.
506649	Benzaminine, 4,4'-carbonimidoylbis[N,N-di- methyl-].
506683	Chloraphazine.
506774	Naphthalenamine, N,N'-bis(2-chloro- ethyl)-.
506876	Benzenediamine, ar-methyl-.
506967	Toluenediamine.
509148	2,4-Toluene diamine.
510156	4-Aminopyridine.
513495	4-Pyridinamine.
	1-Methylbutadiene.
	1,3-Pentadiene.
	Argentate(1-), bis(cyano-C)-, potassium.
	Potassium silver cyanide.
	Silver cyanide Ag(CN).
	Cyanogen bromide (CN)Br.
	Cyanogen chloride (CN)Cl.
	Ammonium carbonate.
	Acetyl bromide.
	Methane, tetrinitro-.
	Tetranitromethane.
	Benzeneacetic acid, 4-chloro-alpha- (4-chlorophenyl)-alpha-hydroxy-, ethyl ester.
	Chlorobenzilate.
	sec-Butylamine.

**Environmental Protection Agency**
**§ 302.4**
**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
528290	o-Dinitrobenzene.
532274	2-Chloroacetophenone.
534521	4,6-Dinitro-o-cresol, and salts.
	Phenol, 2-methyl-4,6-dinitro-, & salts.
540738	Hydrazine, 1,2-dimethyl-.
	1,2-Dimethylhydrazine.
540841	2,2,4-Trimethylpentane.
540885	tert-Butyl acetate.
541093	Uranyl acetate.
541537	Dithiobiuret.
	Thioimidodicarbonic diamide [(H2N)C(S)2NH.
541731	Benzene, 1,3-dichloro-.
	m-Dichlorobenzene.
	1,3-Dichlorobenzene.
542621	Barium cyanide.
542756	1-Propene, 1,3-dichloro-.
	1,3-Dichloropropene.
542767	Propanenitrile, 3-chloro-.
	3-Chloropropionitrile.
542881	Bis(chloromethyl)ether.
	Dichloromethyl ether.
	Methane, oxybis(chloro-.
543908	Cadmium acetate.
544183	Cobaltous formate.
544923	Copper cyanide Cu(CN).
554847	m-Nitrophenol.
557197	Nickel cyanide Ni(CN) <sub>2</sub> .
557211	Zinc cyanide Zn(CN) <sub>2</sub> .
557346	Zinc cyanide Zn(CN)2.
557415	Zinc acetate.
563122	Zinc formate.
563688	Ethion.
	Acetic acid, thallium(1+) salt.
573568	Thallium(I) acetate.
584849	2,6-Dinitrophenol.
	Benzene, 1,3-diisocyanatomethyl-.
	Toluene diisocyanate.
	2,4-Toluene diisocyanate.
591082	Acetamide, N-(aminothioxomethyl)-.
	1-Acetyl-2-thiourea.
592018	Calcium cyanide Ca(CN) <sub>2</sub> .
592041	Mercuric cyanide.
592858	Mercuric thiocyanate.
592870	Lead thiocyanate.
593602	Vinyl bromide.
594423	Methanesulfonyl chloride, trichloro-.
	Trichloromethanesulfonyl chloride.
598312	Bromoacetone.
	2-Propanone, 1-bromo-.
606202	Benzene, 2-methyl-1,3-dinitro-.
	2,6-Dinitrotoluene.
608731	HEXACHLOROCYCLOHEXANE (all isomers).
608935	Benzene, pentachloro-.
	Pentachlorobenzene.
609198	3,4,5-Trichlorophenol.
610399	3,4-Dinitrotoluene.
615532	Carbamic acid, methylnitroso-, ethyl ester.
	N-Nitroso-N-methylurethane.
621647	Di-n-propylnitrosamine.
	1-Propanamine, N-nitroso-N-propyl-.
624839	Methane, isocyanato-.
	Methyl isocyanate.
625161	tert-Amyl acetate.
626380	sec-Amyl acetate.
628637	Amyl acetate.
628864	Fulminic acid, mercury(2+)-salt.
	Mercury fulminate.
630104	Selenourea.
630206	Ethane, 1,1,1,2-tetrachloro-.

**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
631618	1,1,1,2-Tetrachloroethane.
636215	Ammonium acetate.
	Benzenamine, 2-methyl-, hydrochloride.
	o-Tolidine hydrochloride.
640197	Acetamide, 2-fluoro-.
	Fluoroacetamide.
644644	Carbamic acid, dimethyl-, 1-[(dimethylamino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester.
	Dimetilan.
680319	Hexamethylphosphoramide.
684935	N-Nitroso-N-methylurea.
	Urea, N-methyl-N-nitroso-.
692422	Arsine, diethyl-.
	Diethylarsine.
696286	Arsonous dichloride, phenyl-.
	Dichlorophenylarsine.
757584	Hexaethyl tetraphosphate.
	Tetraphosphoric acid, hexaethyl ester.
759739	N-Nitroso-N-ethylurea.
	Urea, N-ethyl-N-nitroso-.
764410	1,4-Dichloro-2-butene.
	2-Butene, 1,4-dichloro-.
765344	Glycidylaldehyde.
	Oxiranecarboxyaldehyde.
815827	Cupric tartrate.
822060	Hexamethylene-1,6-diisocyanate.
823405	Benzenediamine, ar-methyl-.
	Toluenediamine.
	2,4-Toluene diamine.
924163	N-Nitrosodi-n-butylamine.
	1-Butanamine, N-butyl-N-nitroso-.
930552	N-Nitrosopyrrolidine.
	Pyrrolidine, 1-nitroso-.
933755	2,3,6-Trichlorophenol.
	2,3,5-Trichlorophenol.
933788	alpha-Endosulfan.
	Heptachlor epoxide.
1024573	10,10-Dinitro-10-oxo-10-phenanthrene.
1031078	Endosulfan sulfate.
1066304	Chromic acetate.
1066337	Ammonium bicarbonate.
1072351	Lead stearate.
1111780	Ammonium carbamate.
1116547	Ethanol, 2,2'-(nitrosoimino)bis-.
	N-Nitrosodietanolamine.
1120714	1,2-Oxathiolane, 2,2-dioxide.
	1,3-Propane sultone.
1129415	Carbamic acid, methyl-, 3-methylphenyl ester.
	Metolcarb.
1185575	Ferric ammonium citrate.
1194656	Dichlobenil.
1300716	Xylenol.
1303282	Arsenic oxide As <sub>2</sub> O <sub>5</sub> .
	Arsenic pentoxide.
1303328	Arsenic disulfide.
1303339	Arsenic trisulfide.
1309644	Antimony trioxide.
1310583	Potassium hydroxide.
1310732	Sodium hydroxide.
1314325	Thallium oxide.
	Thallium oxide Ti <sub>2</sub> O <sub>3</sub> .
1314621	Vanadium oxide V <sub>2</sub> O <sub>5</sub> .
	Vanadium pentoxide.
1314803	Phosphorus pentasulfide.
	Phosphorus sulfide.
1314847	Sulfur phosphide.
	Zinc phosphide Zn <sub>3</sub> P <sub>2</sub> .
1314870	Lead sulfide.
1319728	2,4,5-T amines.
1319773	Cresol (cresylic acid).

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### APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
1320189	Cresols (isomers and mixture).
1321126	Cresylic acid (isomers and mixture).
1327533	Phenol, methyl-.
1330207	2,4-D Ester.
1332076	Nitrotoluene.
1332214	Arsenic oxide As2O3.
1333831	Arsenic trioxide.
1335326	Benzene, dimethyl-.
1336216	Xylene.
1336363	Xylene (mixed).
1338234	Xylenes (isomers and mixture).
1338245	Zinc borate.
1341497	Asbestos.
1464535	Sodium bifluoride.
1563388	Lead subacetate.
1563662	Lead, bis(acetato-O)tetrahydroxytri.
1582098	Ammonium hydroxide.
1615801	Aroclors.
1634044	PCBs.
1646884	POLYCHLORINATED BIPHENYLS.
1746016	Methyl ethyl ketone peroxide.
1762954	2-Butanone peroxide.
1863634	Naphthenic acid.
1888717	Ammonium bifluoride.
1918009	1,2-Diethyl-
1928387	N,N'-Diethylhydrazine.
1928478	Methyl tert-butyl ether.
1928616	Aldicarb sulfone.
1929733	Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime.
2008460	TCDD.
2032657	2,3,7,8-Tetrachlorodibenzo-p-dioxin.
2303164	Ammonium thiocyanate.
2303175	Ammonium benzoate.
2312358	Hexachloropropene.
2545597	1-Propene, 1,1,2,3,3-hexachloro-.
2631370	Dicamba.
2763964	2,4-D Ester.
2764729	2,4,5-T esters.
2921882	2,4,5-T amines.
2944674	Mercaptodimethur.
	Methiocarb.
	Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate.
	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester.
	Diallate.
	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester.
	Triallate.
	Propargite.
	2,4,5-T esters.
	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate.
	Promecarb.
	3(2H)-Isoxazolone, 5-(aminomethyl)-.
	5-(Aminomethyl)-3-isoxazolol.
	Diquat.
	Chlorpyrifos.
	Ferric ammonium oxalate.

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### APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
2971382	2,4-D Ester.
3012655	Ammonium citrate, dibasic.
3164292	Ammonium tartrate.
3165933	Benzenamine, 4-chloro-2-methyl-, hydrochloride.
3251238	4-Chloro-o-toluidine, hydrochloride.
3288582	Cupric nitrate.
3486359	O,O-Diethyl S-methyl dithiophosphate.
3547044	Phosphorodithioic acid, O,O-diethyl S-methyl ester.
3689245	Zinc carbonate.
3813147	DDE.
4170303	Tetraethylthiopyrophosphate.
4549400	Thiodiphosphoric acid, tetraethyl ester.
5344821	Crotonaldehyde.
5893663	2-Butenal.
5952261	N-Nitrosomethylvinylamine.
5972736	Vinylamine, N-methyl-N-nitroso-.
6009707	Thiourea, (2-chlorophenyl)-.
6369966	1-(o-Chlorophenyl)thiourea.
6369977	Cupric oxalate.
6533739	1-(o-Chlorophenyl)thiourea.
6533739	Ethanol, 2,2'-oxybis-, dicarbamate.
5972736	Diethylene glycol, dicarbamate.
6009707	Ammonium oxalate.
6369966	2,4,5-T amines.
6369977	2,4,5-T amines.
6533739	Carbonic acid, dithallium(1+) salt.
	Thallium(I) carbonate.
7005723	4-Chlorophenyl phenyl ether.
7421934	Endrin aldehyde.
7428480	Lead stearate.
7439921	Lead.
7439976	Mercury.
7440020	Nickel.
7440224	Silver.
7440235	Sodium.
7440280	Thallium.
7440360	Antimony.
7440382	Arsenic.
7440417	Beryllium.
7440439	Beryllium powder.
7440473	Cadmium.
7440508	Chromium.
7440566	Copper.
7446084	Selenium dioxide.
7446142	Selenium oxide.
7446186	Lead sulfate.
7446277	Sulfuric acid, dithallium(1+) salt.
	Thallium(I) sulfate.
	Lead phosphate.
	Phosphoric acid, lead(2+) salt (2:3).
7447394	Cupric chloride.
7488564	Selenium sulfide SeS <sub>2</sub> .
7550450	Titanium tetrachloride.
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.
	Hydrogen chloride.
7647189	Antimony pentachloride.
7664382	Phosphoric acid.
7664393	Hydrofluoric acid.
	Hydrogen fluoride.

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**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
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.
7738945	Chromic acid.
7758294	Sodium phosphate, tribasic.
7758943	Ferrous chloride.
7758954	Lead chloride.
7758987	Cupric sulfate.
7761888	Silver nitrate.
7773060	Ammonium sulfamate.
7775113	Sodium chromate.
7778394	Arsenic acid $\text{H}_3\text{AsO}_4$ .
7778441	Calcium arsenate.
7778509	Potassium bichromate.
7778543	Calcium hypochlorite.
7779864	Zinc hydrosulfite.
7779886	Zinc nitrate.
7782414	Fluorine.
7782492	Selenium.
7782505	Chlorine.
7782630	Ferrous sulfate.
7782823	Sodium selenite.
7782867	Mercurous nitrate.
7783008	Selenious acid.
7783064	Hydrogen sulfide H <sub>2</sub> S.
7783359	Mercuric sulfate.
7783462	Lead fluoride.
7783495	Zinc fluoride.
7783508	Ferric fluoride.
7783564	Antimony trifluoride.
7784341	Arsenic trichloride.
7784409	Lead arsenate.
7784410	Potassium arsenite.
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.
7791120	Thallium chloride TlCl.
7803512	Hydrogen phosphide.
	Phosphine.
7803556	Ammonium vanadate.
	Vanadic acid, ammonium salt.
8001352	Chlorinated camphene.
	Toxaphene.
8003198	Dichloropropane—Dichloropropene (mixture).
8003347	Pyrethrins.
8014957	Sulfuric acid.
10022705	Sodium hypochlorite.
10025873	Phosphorus oxychloride.

**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
10025919	Antimony trichloride.
10026116	Zirconium tetrachloride.
10028225	Ferric sulfate.
10031591	Sulfuric acid, dithallium(1+) salt.
	Thallium(I) sulfate.
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.
10102439	Nitric oxide.
	Nitrogen oxide NO.
10102440	Nitrogen dioxide.
	Nitrogen oxide NO <sub>2</sub> .
10102451	Nitric acid, thallium(1+) salt.
	Thallium(I) nitrate.
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.
10544726	Nitrogen dioxide.
	Nitrogen oxide NO <sub>2</sub> .
10588019	Sodium bichromate.
10605217	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester.
	Carbendazim.
11096825	Aroclor 1260.
11097691	Aroclor 1254.
11104282	Aroclor 1221.
11115745	Chromic acid.
11141165	Aroclor 1232.
12002038	Cupric acetoarsenite.
12039520	Selenious acid, dithallium(1+) salt.
	Thallium(I) selenite.
12054487	Nickel hydroxide.
12125018	Ammonium fluoride.
12125029	Ammonium chloride.
12135761	Ammonium sulfide.
12672296	Aroclor 1248.
12674112	Aroclor 1016.
12771083	Sulfur monochloride.
13463393	Nickel carbonyl Ni(CO) <sub>4</sub> , (T-4)-.
13560991	2,4,5-T salts.
13597994	Beryllium nitrate.
13746899	Zirconium nitrate.
13765190	Calcium chromate.
	Chromic acid H <sub>2</sub> CrO <sub>4</sub> , calcium salt.
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.

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**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
14644612	Zirconium sulfate.
15339363	Manganese, bis(dimethylcarbamodithioato-S,S')-
	.
15699180	Manganese dimethylidithiocarbamate.
15739807	Nickel ammonium sulfate.
15950660	Lead sulfate.
16721805	2,3,4-Trichlorophenol.
16752775	Sodium hydrosulfide.
	Ethanimidothioic acid, N-[[(methylamino)carbonyl] oxy]-, methyl ester.
	Methomyl.
16871719	Zinc silicofluoride.
16919190	Ammonium silicofluoride.
16923958	Zirconium potassium fluoride.
17702577	Formparanate.
	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-.
17804352	Benomyl.
	Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester.
18883664	D-Glucose, 2-deoxy-2-[(methylnitrosoamino)-carbonyl]amino]-.
	Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D-.
	Streptozotocin.
20816120	Osmium oxide OsO <sub>4</sub> , (T-4)-.
	Osmium tetroxide.
20830813	Daunomycin.
	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-.
20859738	Aluminum phosphide.
22781233	Bendiocarb.
	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate.
22961826	Bendiocarb phenol.
	1,3-Benzodioxol-4-ol, 2,2-dimethyl-.
23135220	Ethanimidothioic acid, 2-(dimethylamino)-N-[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester.
	Oxamyl.
23422539	Methanimidamide, N,N-dimethyl-N'-[3-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride.
	Formetanate hydrochloride.
23564058	Carbamic acid, [1,2-phenylenebis(iminocarbonothiyl)]bis-, dimethyl ester.
	Thiophanate-methyl.
23950585	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-.
	Pronamide.
25154545	Dinitrobenzene (mixed).
25154556	Nitrophenol (mixed).
25155300	Sodium dodecylbenzenesulfonate.
25167822	Trichlorophenol.
25168154	2,4-T esters.
25168267	2,4-D Ester.
25321146	Dinitrotoluene.
25321226	Dichlorobenzene.
25376458	Benzenediamine, ar-methyl-.
	Toluenediamine.
	2,4-Toluene diamine.
25550587	Dinitrophenol.
26264062	Calcium dodecylbenzenesulfonate.
26419738	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino)-carbonyl]oxime.
	Tirpate.
26471625	Benzene, 1,3-diisocyanatomethyl-.

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**APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued**

CASRN	Hazardous substance
	Toluene diisocyanate.
	2,4-Toluene diisocyanate.
26628228	Sodium azide.
26638197	Dichloropropane.
26952238	Dichloropropene.
27176870	Dodecylbenzenesulfonic acid.
27323417	Triethanolamine dodecylbenzene sulfonate.
27774136	Vanadyl sulfate.
28300745	Antimony potassium tartrate.
30525894	Paraformaldehyde.
30558431	Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester.
	A2213.
32534955	2,4,5-TP esters.
33213659	beta - Endosulfan.
36478769	Uranyl nitrate.
37211055	Nickel chloride.
39196184	Thiofanox.
	2-Butanone, 3,3-dimethyl-1-(methylthio)-O-[(methylamino)carbonyl] oxime.
42504461	Isopropanolamine dodecylbenzenesulfonate.
52628258	Zinc ammonium chloride.
52652592	Lead stearate.
52740166	Calcium arsenite.
52888809	Carbamothioic acid, dipropyl-, S-(phenylmethyl)ester.
	Prosulfocarb.
53467111	2,4-D Ester.
53469219	Aroclor 1242.
55285148	Carbamic acid, [(dibutylamino)-thio]methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester.
	Carbosulfan.
	Ferric ammonium oxalate.
56189094	Lead stearate.
59669260	Ethanimidothioic acid, N,N'-[thiobis[(methylimino)carbonyloxy]]bis-, dimethyl ester.
61792072	Thiodicarb.
	2,4,5-T esters.

**APPENDIX B TO § 302.4—RADIONUCLIDES**

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Radionuclides@ .....	.....	1&(3.7E 10)
Actinium-224 .....	89	100 (3.7E 12)
Actinium-225 .....	89	1 (3.7E 10)
Actinium-226 .....	89	10 (3.7E 11)
Actinium-227 .....	89	0.001 (3.7E 7)
Actinium-228 .....	89	10 (3.7E 11)
Aluminum-26 .....	13	10 (3.7E 11)
Americium-237 .....	95	1000 (3.7E 13)
Americium-238 .....	95	100 (3.7E 12)
Americium-239 .....	95	100 (3.7E 12)
Americium-240 .....	95	10 (3.7E 11)
Americium-241 .....	95	0.01 (3.7E 8)
Americium-242m .....	95	0.01 (3.7E 8)
Americium-242 .....	95	100 (3.7E 12)
Americium-243 .....	95	0.01 (3.7E 8)
Americium-244m .....	95	1000 (3.7E 13)
Americium-244 .....	95	10 (3.7E 11)
Americium-245 .....	95	1000 (3.7E 13)
Americium-246m .....	95	1000 (3.7E 13)
Americium-246 .....	95	1000 (3.7E 13)
Antimony-115 .....	51	1000 (3.7E 13)
Antimony-116m .....	51	100 (3.7E 12)
Antimony-116 .....	51	1000 (3.7E 13)
Antimony-117 .....	51	1000 (3.7E 13)

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**APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued**
**APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued**

Radionuclide	Atomic Number	Final RQ Ci (Bq)	Radionuclide	Atomic Number	Final RQ Ci (Bq)
Antimony-118m .....	51	10 (3.7E 11)	Cadmium-107 .....	48	1000 (3.7E 13)
Antimony-119 .....	51	1000 (3.7E 13)	Cadmium-109 .....	48	1 (3.7E 10)
Antimony-120 (16 min) .....	51	1000 (3.7E 13)	Cadmium-113m .....	48	0.1 (3.7E 9)
Antimony-120 (5.76 day) .....	51	10 (3.7E 11)	Cadmium-113 .....	48	0.1 (3.7E 9)
Antimony-122 .....	51	10 (3.7E 11)	Cadmium-115m .....	48	10 (3.7E 11)
Antimony-124m .....	51	1000 (3.7E 13)	Cadmium-115 .....	48	100 (3.7E 12)
Antimony-124 .....	51	10 (3.7E 11)	Cadmium-117m .....	48	10 (3.7E 11)
Antimony-125 .....	51	10 (3.7E 11)	Cadmium-117 .....	48	100 (3.7E 12)
Antimony-126m .....	51	1000 (3.7E 13)	Calcium-41 .....	20	10 (3.7E 11)
Antimony-126 .....	51	10 (3.7E 11)	Calcium-45 .....	20	10 (3.7E 11)
Antimony-127 .....	51	10 (3.7E 11)	Calcium-47 .....	20	10 (3.7E 11)
Antimony-128 (10.4 min) .....	51	1000 (3.7E 13)	Californium-244 .....	98	1000 (3.7E 13)
Antimony-128 (9.01 hr) .....	51	10 (3.7E 11)	Californium-246 .....	98	10 (3.7E 11)
Antimony-129 .....	51	100 (3.7E 12)	Californium-248 .....	98	0.1 (3.7E 9)
Antimony-130 .....	51	100 (3.7E 12)	Californium-249 .....	98	0.01 (3.7E 8)
Antimony-131 .....	51	1000 (3.7E 13)	Californium-250 .....	98	0.01 (3.7E 8)
Argon-39 .....	18	1000 (3.7E 13)	Californium-251 .....	98	0.01 (3.7E 8)
Argon-41 .....	18	10 (3.7E 11)	Californium-252 .....	98	0.1 (3.7E 9)
Arsenic-69 .....	33	1000 (3.7E 13)	Californium-253 .....	98	10 (3.7E 11)
Arsenic-70 .....	33	100 (3.7E 12)	Californium-254 .....	98	0.1 (3.7E 9)
Arsenic-71 .....	33	100 (3.7E 12)	Carbon-11 .....	6	1000 (3.7E 13)
Arsenic-72 .....	33	10 (3.7E 11)	Carbon-14 .....	6	10 (3.7E 11)
Arsenic-73 .....	33	100 (3.7E 12)	Cerium-134 .....	58	10 (3.7E 11)
Arsenic-74 .....	33	10 (3.7E 11)	Cerium-135 .....	58	10 (3.7E 11)
Arsenic-76 .....	33	100 (3.7E 12)	Cerium-137m .....	58	100 (3.7E 12)
Arsenic-77 .....	33	1000 (3.7E 13)	Cerium-137 .....	58	1000 (3.7E 13)
Arsenic-78 .....	33	100 (3.7E 12)	Cerium-139 .....	58	100 (3.7E 12)
Astatine-207 .....	85	100 (3.7E 12)	Cerium-141 .....	58	10 (3.7E 11)
Astatine-211 .....	85	100 (3.7E 12)	Cerium-143 .....	58	100 (3.7E 12)
Barium-126 .....	56	1000 (3.7E 13)	Cerium-144 .....	58	1 (3.7E 10)
Barium-128 .....	56	10 (3.7E 11)	Cesium-125 .....	55	1000 (3.7E 13)
Barium-131m .....	56	1000 (3.7E 13)	Cesium-127 .....	55	100 (3.7E 12)
Barium-131 .....	56	10 (3.7E 11)	Cesium-129 .....	55	100 (3.7E 12)
Barium-133m .....	56	100 (3.7E 12)	Cesium-130 .....	55	1000 (3.7E 13)
Barium-133 .....	56	10 (3.7E 11)	Cesium-131 .....	55	1000 (3.7E 13)
Barium-135m .....	56	1000 (3.7E 13)	Cesium-132 .....	55	10 (3.7E 11)
Barium-139 .....	56	1000 (3.7E 13)	Cesium-134m .....	55	1000 (3.7E 13)
Barium-140 .....	56	10 (3.7E 11)	Cesium-134 .....	55	1 (3.7E 10)
Barium-141 .....	56	1000 (3.7E 13)	Cesium-135m .....	55	100 (3.7E 12)
Barium-142 .....	56	1000 (3.7E 13)	Cesium-135 .....	55	10 (3.7E 11)
Berkelium-245 .....	97	100 (3.7E 12)	Cesium-136 .....	55	10 (3.7E 11)
Berkelium-246 .....	97	10 (3.7E 11)	Cesium-137 .....	55	1 (3.7E 10)
Berkelium-247 .....	97	0.01 (3.7E 8)	Cesium-138 .....	55	100 (3.7E 12)
Berkelium-249 .....	97	1 (3.7E 10)	Chlorine-36 .....	17	10 (3.7E 11)
Berkelium-250 .....	97	100 (3.7E 12)	Chlorine-38 .....	17	100 (3.7E 12)
Beryllium-7 .....	4	100 (3.7E 12)	Chlorine-39 .....	17	100 (3.7E 12)
Beryllium-10 .....	4	1 (3.7E 10)	Chromium-48 .....	24	100 (3.7E 12)
Bismuth-200 .....	83	100 (3.7E 12)	Chromium-49 .....	24	1000 (3.7E 13)
Bismuth-201 .....	83	100 (3.7E 12)	Chromium-51 .....	24	1000 (3.7E 13)
Bismuth-202 .....	83	1000 (3.7E 13)	Cobalt-55 .....	27	10 (3.7E 11)
Bismuth-203 .....	83	10 (3.7E 11)	Cobalt-56 .....	27	10 (3.7E 11)
Bismuth-205 .....	83	10 (3.7E 11)	Cobalt-57 .....	27	100 (3.7E 12)
Bismuth-206 .....	83	10 (3.7E 11)	Cobalt-58m .....	27	1000 (3.7E 13)
Bismuth-207 .....	83	10 (3.7E 11)	Cobalt-58 .....	27	10 (3.7E 11)
Bismuth-210m .....	83	0.1 (3.7E 9)	Cobalt-60m .....	27	1000 (3.7E 13)
Bismuth-210 .....	83	10 (3.7E 11)	Cobalt-60 .....	27	10 (3.7E 11)
Bismuth-212 .....	83	100 (3.7E 12)	Cobalt-61 .....	27	1000 (3.7E 13)
Bismuth-213 .....	83	100 (3.7E 12)	Cobalt-62m .....	27	1000 (3.7E 13)
Bismuth-214 .....	83	100 (3.7E 12)	Copper-60 .....	29	100 (3.7E 12)
Bromine-74m .....	35	100 (3.7E 12)	Copper-61 .....	29	100 (3.7E 12)
Bromine-74 .....	35	100 (3.7E 12)	Copper-64 .....	29	1000 (3.7E 13)
Bromine-75 .....	35	100 (3.7E 12)	Copper-67 .....	29	100 (3.7E 12)
Bromine-76 .....	35	10 (3.7E 11)	Curium-238 .....	96	1000 (3.7E 13)
Bromine-77 .....	35	100 (3.7E 12)	Curium-240 .....	96	1 (3.7E 10)
Bromine-80m .....	35	1000 (3.7E 13)	Curium-241 .....	96	10 (3.7E 11)
Bromine-80 .....	35	1000 (3.7E 13)	Curium-242 .....	96	1 (3.7E 10)
Bromine-82 .....	35	10 (3.7E 11)	Curium-243 .....	96	0.01 (3.7E 8)
Bromine-83 .....	35	1000 (3.7E 13)	Curium-244 .....	96	0.01 (3.7E 8)
Bromine-84 .....	35	100 (3.7E 12)	Curium-245 .....	96	0.01 (3.7E 8)
Cadmium-104 .....	48	1000 (3.7E 13)	Curium-246 .....	96	0.01 (3.7E 8)

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**APPENDIX B TO § 302.4—RADIONUCLIDES—  
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Radionuclide	Atomic Number	Final RQ Ci (Bq)
Curium-247 .....	96	0.01 (3.7E 8)
Curium-248 .....	96	0.001 (3.7E 7)
Curium-249 .....	96	1000 (3.7E 13)
Dysprosium-155 .....	66	100 (3.7E 12)
Dysprosium-157 .....	66	100 (3.7E 12)
Dysprosium-159 .....	66	100 (3.7E 12)
Dysprosium-165 .....	66	1000 (3.7E 13)
Dysprosium-166 .....	66	10 (3.7E 11)
Einsteinium-250 .....	99	10 (3.7E 11)
Einsteinium-251 .....	99	1000 (3.7E 13)
Einsteinium-253 .....	99	10 (3.7E 11)
Einsteinium-254 .....	99	1 (3.7E 10)
Einsteinium-254 .....	99	0.1 (3.7E 9)
Erbium-161 .....	68	100 (3.7E 12)
Erbium-165 .....	68	1000 (3.7E 13)
Erbium-169 .....	68	100 (3.7E 12)
Erbium-171 .....	68	100 (3.7E 12)
Erbium-172 .....	68	10 (3.7E 11)
Europium-145 .....	63	10 (3.7E 11)
Europium-146 .....	63	10 (3.7E 11)
Europium-147 .....	63	10 (3.7E 11)
Europium-148 .....	63	10 (3.7E 11)
Europium-149 .....	63	100 (3.7E 12)
Europium-150 (12.6 hr) .....	63	1000 (3.7E 13)
Europium-150 (34.2 yr) .....	63	10 (3.7E 11)
Europium-152m .....	63	100 (3.7E 12)
Europium-152 .....	63	10 (3.7E 11)
Europium-154 .....	63	10 (3.7E 11)
Europium-155 .....	63	10 (3.7E 11)
Europium-156 .....	63	10 (3.7E 11)
Europium-157 .....	63	10 (3.7E 11)
Europium-158 .....	63	1000 (3.7E 13)
Fermium-252 .....	100	10 (3.7E 11)
Fermium-253 .....	100	10 (3.7E 11)
Fermium-254 .....	100	100 (3.7E 12)
Fermium-255 .....	100	100 (3.7E 12)
Fermium-257 .....	100	1 (3.7E 10)
Fluorine-18 .....	9	1000 (3.7E 13)
Francium-222 .....	87	100 (3.7E 12)
Francium-223 .....	87	100 (3.7E 12)
Gadolinium-145 .....	64	100 (3.7E 12)
Gadolinium-146 .....	64	10 (3.7E 11)
Gadolinium-147 .....	64	10 (3.7E 11)
Gadolinium-148 .....	64	0.001 (3.7E7)
Gadolinium-149 .....	64	100 (3.7E 12)
Gadolinium-151 .....	64	100 (3.7E 12)
Gadolinium-152 .....	64	0.001 (3.7E 7)
Gadolinium-153 .....	64	10 (3.7E 11)
Gadolinium-159 .....	64	1000 (3.7E 13)
Gallium-65 .....	31	1000 (3.7E 13)
Gallium-66 .....	31	10 (3.7E 11)
Gallium-67 .....	31	100 (3.7E 12)
Gallium-68 .....	31	1000 (3.7E 13)
Gallium-70 .....	31	1000 (3.7E 13)
Gallium-72 .....	31	10 (3.7E 11)
Gallium-73 .....	31	100 (3.7E 12)
Germanium-66 .....	32	100 (3.7E 12)
Germanium-67 .....	32	1000 (3.7E 13)
Germanium-68 .....	32	10 (3.7E 11)
Germanium-69 .....	32	10 (3.7E 11)
Germanium-71 .....	32	1000 (3.7E 13)
Germanium-75 .....	32	1000 (3.7E 13)
Germanium-77 .....	32	10 (3.7E 11)
Germanium-78 .....	32	1000 (3.7E 13)
Gold-193 .....	79	100 (3.7E 12)
Gold-194 .....	79	10 (3.7E 11)
Gold-195 .....	79	100 (3.7E 12)
Gold-198m .....	79	10 (3.7E 11)
Gold-198 .....	79	100 (3.7E 12)
Gold-199 .....	79	100 (3.7E 12)

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**APPENDIX B TO § 302.4—RADIONUCLIDES—  
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Radionuclide	Atomic Number	Final RQ Ci (Bq)
Gold-200m .....	79	10 (3.7E 11)
Gold-200 .....	79	1000 (3.7E 13)
Gold-201 .....	79	1000 (3.7E 13)
Hafnium-170 .....	72	100 (3.7E 12)
Hafnium-172 .....	72	1 (3.7E 10)
Hafnium-173 .....	72	100 (3.7E 12)
Hafnium-175 .....	72	100 (3.7E 12)
Hafnium-177m .....	72	1000 (3.7E 13)
Hafnium-178m .....	72	0.1 (3.7E 9)
Hafnium-179m .....	72	100 (3.7E 12)
Hafnium-180m .....	72	100 (3.7E 12)
Hafnium-181 .....	72	10 (3.7E 11)
Hafnium-182m .....	72	100 (3.7E 12)
Hafnium-182 .....	72	0.1 (3.7E 9)
Hafnium-183 .....	72	100 (3.7E 12)
Hafnium-184 .....	72	100 (3.7E 12)
Holmium-155 .....	67	1000 (3.7E 13)
Holmium-157 .....	67	1000 (3.7E 13)
Holmium-159 .....	67	1000 (3.7E 13)
Holmium-161 .....	67	1000 (3.7E 13)
Holmium-162m .....	67	1000 (3.7E 13)
Holmium-162 .....	67	1000 (3.7E 13)
Holmium-164 .....	67	1000 (3.7E 13)
Holmium-164 .....	67	1000 (3.7E 13)
Holmium-166 .....	67	1 (3.7E 10)
Holmium-166 .....	67	100 (3.7E 12)
Holmium-167 .....	67	100 (3.7E 12)
Hydrogen-3 .....	1	100 (3.7E 12)
Indium-109 .....	49	100 (3.7E 12)
Indium-110 (69.1 min) .....	49	100 (3.7E 12)
Indium-110 (4.9 hr) .....	49	10 (3.7E 11)
Indium-111 .....	49	100 (3.7E 12)
Indium-112 .....	49	1000 (3.7E 13)
Indium-113m .....	49	1000 (3.7E 13)
Indium-114m .....	49	10 (3.7E 11)
Indium-115m .....	49	100 (3.7E 12)
Indium-115 .....	49	0.1 (3.7E 9)
Indium-116m .....	49	100 (3.7E 12)
Indium-117m .....	49	100 (3.7E 12)
Indium-117 .....	49	1000 (3.7E 13)
Indium-119m .....	49	1000 (3.7E 13)
Indine-120m .....	53	100 (3.7E 12)
Indine-120 .....	53	10 (3.7E 11)
Iodine-121 .....	53	100 (3.7E 12)
Iodine-123 .....	53	10 (3.7E 11)
Iodine-124 .....	53	0.1 (3.7E 9)
Iodine-125 .....	53	0.01 (3.7E 8)
Iodine-126 .....	53	0.01 (3.7E 8)
Iodine-128 .....	53	1000 (3.7E 13)
Iodine-129 .....	53	0.001 (3.7E 7)
Iodine-130 .....	53	1 (3.7E 10)
Iodine-131 .....	53	0.01 (3.7E 8)
Iodine-132m .....	53	10 (3.7E 11)
Iodine-132 .....	53	10 (3.7E 11)
Iodine-133 .....	53	0.1 (3.7E 9)
Iodine-134 .....	53	100 (3.7E 12)
Iodine-135 .....	53	10 (3.7E 11)
Iridium-182 .....	77	1000 (3.7E 13)
Iridium-184 .....	77	100 (3.7E 12)
Iridium-185 .....	77	100 (3.7E 12)
Iridium-186 .....	77	10 (3.7E 11)
Iridium-187 .....	77	100 (3.7E 12)
Iridium-188 .....	77	10 (3.7E 11)
Iridium-189 .....	77	100 (3.7E 12)
Iridium-190m .....	77	1000 (3.7E 13)
Iridium-190 .....	77	10 (3.7E 11)
Iridium-192m .....	77	100 (3.7E 12)
Iridium-192 .....	77	10 (3.7E 11)
Iridium-194m .....	77	10 (3.7E 11)
Iridium-194 .....	77	100 (3.7E 12)

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**APPENDIX B TO § 302.4—RADIONUCLIDES—  
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**APPENDIX B TO § 302.4—RADIONUCLIDES—  
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Radionuclide	Atomic Number	Final RQ Ci (Bq)	Radionuclide	Atomic Number	Final RQ Ci (Bq)
Iridium-195m .....	77	100 (3.7E 12)	Mercury-203 .....	80	10 (3.7E 11)
Iridium-195 .....	77	1000 (3.7E 13)	Molybdenum-90 .....	42	100 (3.7E 12)
Iron-52 .....	26	100 (3.7E 12)	Molybdenum-93m .....	42	10 (3.7E 11)
Iron-55 .....	26	100 (3.7E 12)	Molybdenum-93 .....	42	100 (3.7E 12)
Iron-59 .....	26	10 (3.7E 11)	Molybdenum-99 .....	42	100 (3.7E 12)
Iron-60 .....	26	0.1 (3.7E 9)	Molybdenum-101 .....	42	1000 (3.7E 13)
Krypton-74 .....	36	10 (3.7E 11)	Neodymium-136 .....	60	1000 (3.7E 13)
Krypton-76 .....	36	10 (3.7E 11)	Neodymium-138 .....	60	1000 (3.7E 13)
Krypton-77 .....	36	10 (3.7E 11)	Neodymium-139m .....	60	100 (3.7E 12)
Krypton-79 .....	36	100 (3.7E 12)	Neodymium-139 .....	60	1000 (3.7E 13)
Krypton-81 .....	36	1000 (3.7E 13)	Neodymium-141 .....	60	1000 (3.7E 13)
Krypton-83m .....	36	1000 (3.7E 13)	Neodymium-147 .....	60	10 (3.7E 11)
Krypton-85m .....	36	100 (3.7E 12)	Neodymium-149 .....	60	100 (3.7E 12)
Krypton-85 .....	36	1000 (3.7E 13)	Neodymium-151 .....	60	1000 (3.7E 13)
Krypton-87 .....	36	10 (3.7E 11)	Neptunium-232 .....	93	1000 (3.7E 13)
Krypton-88 .....	36	10 (3.7E 11)	Neptunium-233 .....	93	1000 (3.7E 13)
Lanthanum-131 .....	57	1000 (3.7E 13)	Neptunium-234 .....	93	10 (3.7E 11)
Lanthanum-132 .....	57	100 (3.7E 12)	Neptunium-235 .....	93	1000 (3.7E 13)
Lanthanum-135 .....	57	1000 (3.7E 13)	Neptunium-236 (1.2 E 5 yr) .....	93	0.1 (3.7E 9)
Lanthanum-137 .....	57	10 (3.7E 11)	Neptunium-236 (22.5 hr) .....	93	100 (3.7E 12)
Lanthanum-138 .....	57	1 (3.7E 10)	Neptunium-237 .....	93	0.01 (3.7E 8)
Lanthanum-140 .....	57	10 (3.7E 11)	Neptunium-238 .....	93	10 (3.7E 11)
Lanthanum-141 .....	57	1000 (3.7E 13)	Neptunium-239 .....	93	100 (3.7E 12)
Lanthanum-142 .....	57	100 (3.7E 12)	Neptunium-240 .....	93	100 (3.7E 12)
Lanthanum-143 .....	57	1000 (3.7E 13)	Nickel-56 .....	28	10 (3.7E 11)
Lead-195m .....	82	1000 (3.7E 13)	Nickel-57 .....	28	10 (3.7E 11)
Lead-198 .....	82	100 (3.7E 12)	Nickel-59 .....	28	100 (3.7E 12)
Lead-199 .....	82	100 (3.7E 12)	Nickel-63 .....	28	100 (3.7E 12)
Lead-200 .....	82	100 (3.7E 12)	Nickel-65 .....	28	100 (3.7E 12)
Lead-201 .....	82	100 (3.7E 12)	Nickel-66 .....	28	10 (3.7E 11)
Lead-202m .....	82	10 (3.7E 11)	Niobium-88 .....	41	100 (3.7E 12)
Lead-202 .....	82	1 (3.7E 10)	Niobium-89 (66 min) .....	41	100 (3.7E 12)
Lead-203 .....	82	100 (3.7E 12)	Niobium-89 (122 min) .....	41	100 (3.7E 12)
Lead-205 .....	82	100 (3.7E 12)	Niobium-90 .....	41	10 (3.7E 11)
Lead-209 .....	82	1000 (3.7E 13)	Niobium-93m .....	41	100 (3.7E 12)
Lead-210 .....	82	0.01 (3.7E 8)	Niobium-94 .....	41	10 (3.7E 11)
Lead-211 .....	82	100 (3.7E 12)	Niobium-95m .....	41	100 (3.7E 12)
Lead-212 .....	82	10 (3.7E 11)	Niobium-95 .....	41	10 (3.7E 11)
Lead-214 .....	82	100 (3.7E 12)	Niobium-96 .....	41	10 (3.7E 11)
Lutetium-169 .....	71	10 (3.7E 11)	Niobium-97 .....	41	100 (3.7E 12)
Lutetium-170 .....	71	10 (3.7E 11)	Niobium-98 .....	41	1000 (3.7E 13)
Lutetium-171 .....	71	10 (3.7E 11)	Osmium-180 .....	76	1000 (3.7E 13)
Lutetium-172 .....	71	10 (3.7E 11)	Osmium-181 .....	76	100 (3.7E 12)
Lutetium-173 .....	71	100 (3.7E 12)	Osmium-182 .....	76	100 (3.7E 12)
Lutetium-174m .....	71	10 (3.7E 11)	Osmium-185 .....	76	10 (3.7E 11)
Lutetium-174 .....	71	10 (3.7E 11)	Osmium-189m .....	76	1000 (3.7E 13)
Lutetium-176m .....	71	1000 (3.7E 13)	Osmium-191m .....	76	1000 (3.7E 13)
Lutetium-176 .....	71	1 (3.7E 10)	Osmium-191 .....	76	100 (3.7E 12)
Lutetium-177m .....	71	10 (3.7E 11)	Osmium-193 .....	76	100 (3.7E 12)
Lutetium-177 .....	71	100 (3.7E 12)	Osmium-194 .....	76	1 (3.7E 10)
Lutetium-178m .....	71	1000 (3.7E 13)	Palladium-100 .....	46	100 (3.7E 12)
Lutetium-178 .....	71	1000 (3.7E 13)	Palladium-101 .....	46	100 (3.7E 12)
Lutetium-179 .....	71	1000 (3.7E 13)	Palladium-103 .....	46	100 (3.7E 12)
Magnesium-28 .....	12	10 (3.7E 11)	Palladium-107 .....	46	100 (3.7E 12)
Manganese-51 .....	25	1000 (3.7E 13)	Palladium-109 .....	46	1000 (3.7E 13)
Manganese-52m .....	25	1000 (3.7E 13)	Phosphorus-32 .....	15	0.1 (3.7E 9)
Manganese-52 .....	25	10 (3.7E 11)	Phosphorus-33 .....	15	1 (3.7E 10)
Manganese-53 .....	25	1000 (3.7E 13)	Platinum-186 .....	78	100 (3.7E 12)
Manganese-54 .....	25	10 (3.7E 11)	Platinum-188 .....	78	100 (3.7E 12)
Manganese-56 .....	25	100 (3.7E 12)	Platinum-189 .....	78	100 (3.7E 12)
Mendelevium-257 .....	101	100 (3.7E 12)	Platinum-191 .....	78	100 (3.7E 12)
Mendelevium-258 .....	101	1 (3.7E 10)	Platinum-193m .....	78	100 (3.7E 12)
Mercury-193m .....	80	10 (3.7E 11)	Platinum-193 .....	78	1000 (3.7E 13)
Mercury-193 .....	80	100 (3.7E 12)	Platinum-195m .....	78	100 (3.7E 12)
Mercury-194 .....	80	0.1 (3.7E 9)	Platinum-197m .....	78	1000 (3.7E 13)
Mercury-195m .....	80	100 (3.7E 12)	Platinum-197 .....	78	1000 (3.7E 13)
Mercury-195 .....	80	100 (3.7E 12)	Platinum-199 .....	78	1000 (3.7E 13)
Mercury-197m .....	80	1000 (3.7E 13)	Platinum-200 .....	78	100 (3.7E 12)
Mercury-197 .....	80	1000 (3.7E 13)	Plutonium-234 .....	94	1000 (3.7E 13)
Mercury-199m .....	80	1000 (3.7E 13)	Plutonium-235 .....	94	1000 (3.7E 13)

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**APPENDIX B TO § 302.4—RADIONUCLIDES—  
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Radionuclide	Atomic Number	Final RQ Ci (Bq)
Plutonium-236 .....	94	0.1 (3.7E 9)
Plutonium-237 .....	94	1000 (3.7E 13)
Plutonium-238 .....	94	0.01 (3.7E 8)
Plutonium-239 .....	94	0.01 (3.7E 8)
Plutonium-240 .....	94	0.01 (3.7E 8)
Plutonium-241 .....	94	1 (3.7E 10)
Plutonium-242 .....	94	0.01 (3.7E 8)
Plutonium-243 .....	94	1000 (3.7E 13)
Plutonium-244 .....	94	0.01 (3.7E 8)
Plutonium-245 .....	94	100 (3.7E 12)
Polonium-203 .....	84	100 (3.7E 12)
Polonium-205 .....	84	100 (3.7E 12)
Polonium-207 .....	84	10 (3.7E 11)
Polonium-210 .....	84	0.01 (3.7E 8)
Potassium-40 .....	19	1 (3.7E 10)
Potassium-42 .....	19	100 (3.7E 12)
Potassium-43 .....	19	10 (3.7E 11)
Potassium-44 .....	19	100 (3.7E 12)
Potassium-45 .....	19	1000 (3.7E 13)
Praseodymium-136 .....	59	1000 (3.7E 13)
Praseodymium-137 .....	59	1000 (3.7E 13)
Praseodymium-138m .....	59	100 (3.7E 12)
Praseodymium-139 .....	59	1000 (3.7E 13)
Praseodymium-142m .....	59	1000 (3.7E 13)
Praseodymium-142 .....	59	100 (3.7E 12)
Praseodymium-143 .....	59	10 (3.7E 11)
Praseodymium-144 .....	59	1000 (3.7E 13)
Praseodymium-145 .....	59	1000 (3.7E 13)
Praseodymium-147 .....	59	1000 (3.7E 13)
Promethium-141 .....	61	1000 (3.7E 13)
Promethium-143 .....	61	100 (3.7E 12)
Promethium-144 .....	61	10 (3.7E 11)
Promethium-145 .....	61	100 (3.7E 12)
Promethium-146 .....	61	10 (3.7E 11)
Promethium-147 .....	61	10 (3.7E 11)
Promethium-148m .....	61	10 (3.7E 11)
Promethium-148 .....	61	10 (3.7E 11)
Promethium-149 .....	61	100 (3.7E 12)
Promethium-150 .....	61	100 (3.7E 12)
Promethium-151 .....	61	100 (3.7E 12)
Protactinium-227 .....	91	100 (3.7E 12)
Protactinium-228 .....	91	10 (3.7E 11)
Protactinium-230 .....	91	10 (3.7E 11)
Protactinium-231 .....	91	0.01 (3.7E 8)
Protactinium-232 .....	91	10 (3.7E 11)
Protactinium-233 .....	91	100 (3.7E 12)
Protactinium-234 .....	91	10 (3.7E 11)
Radium-223 .....	88	1 (3.7E 10)
Radium-224 .....	88	10 (3.7E 11)
Radium-225 .....	88	1 (3.7E 10)
Radium-226 $\Phi$ .....	88	0.1 (3.7E 9)
Radium-227 .....	88	1000 (3.7E 13)
Radium-228 .....	88	0.1 (3.7E 9)
Radon-220 .....	86	0.1 (3.7E 9)
Radon-222 .....	86	0.1 (3.7E 9)
Rhenium-177 .....	75	1000 (3.7E 13)
Rhenium-178 .....	75	1000 (3.7E 13)
Rhenium-181 .....	75	100 (3.7E 12)
Rhenium-182 (12.7 hr) .....	75	10 (3.7E 11)
Rhenium-182 (64.0 hr) .....	75	10 (3.7E 11)
Rhenium-184m .....	75	10 (3.7E 11)
Rhenium-184 .....	75	10 (3.7E 11)
Rhenium-186m .....	75	10 (3.7E 11)
Rhenium-186 .....	75	100 (3.7E 12)
Rhenium-187 .....	75	1000 (3.7E 13)
Rhenium-188 .....	75	1000 (3.7E 13)
Rhenium-188 .....	75	1000 (3.7E 13)
Rhodium-99m .....	45	100 (3.7E 12)
Rhodium-99 .....	45	10 (3.7E 11)

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Radionuclide	Atomic Number	Final RQ Ci (Bq)
Rhodium-100 .....	45	10 (3.7E 11)
Rhodium-101m .....	45	100 (3.7E 12)
Rhodium-101 .....	45	10 (3.7E 11)
Rhodium-102m .....	45	10 (3.7E 11)
Rhodium-102 .....	45	10 (3.7E 11)
Rhodium-103m .....	45	1000 (3.7E 13)
Rhodium-105 .....	45	100 (3.7E 12)
Rhodium-106m .....	45	10 (3.7E 11)
Rhodium-107 .....	45	1000 (3.7E 13)
Rubidium-79 .....	37	1000 (3.7E 13)
Rubidium-81m .....	37	1000 (3.7E 13)
Rubidium-81 .....	37	100 (3.7E 12)
Rubidium-82m .....	37	10 (3.7E 11)
Rubidium-83 .....	37	10 (3.7E 11)
Rubidium-84 .....	37	10 (3.7E 11)
Rubidium-86 .....	37	10 (3.7E 11)
Rubidium-88 .....	37	1000 (3.7E 13)
Rubidium-89 .....	37	1000 (3.7E 13)
Rubidium-87 .....	37	10 (3.7E 11)
Ruthenium-94 .....	44	1000 (3.7E 13)
Ruthenium-97 .....	44	100 (3.7E 12)
Ruthenium-103 .....	44	10 (3.7E 11)
Ruthenium-105 .....	44	100 (3.7E 12)
Ruthenium-106 .....	44	1 (3.7E 10)
Samarium-141m .....	62	1000 (3.7E 13)
Samarium-141 .....	62	1000 (3.7E 13)
Samarium-142 .....	62	1000 (3.7E 13)
Samarium-145 .....	62	100 (3.7E 12)
Samarium-146 .....	62	0.01 (3.7E 8)
Samarium-147 .....	62	0.01 (3.7E 8)
Samarium-151 .....	62	10 (3.7E 11)
Samarium-153 .....	62	100 (3.7E 12)
Samarium-155 .....	62	1000 (3.7E 13)
Samarium-156 .....	62	100 (3.7E 12)
Scandium-43 .....	21	1000 (3.7E 13)
Scandium-44m .....	21	10 (3.7E 11)
Scandium-44 .....	21	100 (3.7E 12)
Scandium-46 .....	21	10 (3.7E 11)
Scandium-47 .....	21	100 (3.7E 12)
Scandium-48 .....	21	10 (3.7E 11)
Scandium-49 .....	21	1000 (3.7E 13)
Selenium-70 .....	34	1000 (3.7E 13)
Selenium-73m .....	34	100 (3.7E 12)
Selenium-73 .....	34	10 (3.7E 11)
Selenium-75 .....	34	10 (3.7E 11)
Selenium-79 .....	34	10 (3.7E 11)
Selenium-81m .....	34	1000 (3.7E 13)
Selenium-81 .....	34	1000 (3.7E 13)
Selenium-83 .....	34	1000 (3.7E 13)
Silicon-31 .....	14	1000 (3.7E 13)
Silicon-32 .....	14	1 (3.7E 10)
Silver-102 .....	47	100 (3.7E 12)
Silver-103 .....	47	1000 (3.7E 13)
Silver-104m .....	47	1000 (3.7E 13)
Silver-104 .....	47	1000 (3.7E 13)
Silver-105 .....	47	10 (3.7E 11)
Silver-106m .....	47	10 (3.7E 11)
Silver-106 .....	47	1000 (3.7E 13)
Silver-108m .....	47	10 (3.7E 11)
Silver-110m .....	47	10 (3.7E 11)
Silver-111 .....	47	10 (3.7E 11)
Silver-112 .....	47	100 (3.7E 12)
Silver-115 .....	47	1000 (3.7E 13)
Sodium-22 .....	11	10 (3.7E 11)
Sodium-24 .....	11	10 (3.7E 11)
Strontium-80 .....	38	100 (3.7E 12)
Strontium-81 .....	38	1000 (3.7E 13)
Strontium-83 .....	38	100 (3.7E 12)
Strontium-85m .....	38	1000 (3.7E 13)
Strontium-85 .....	38	10 (3.7E 11)

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**APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued**

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Strontium-87m .....	38	100 (3.7E 12)
Strontium-89 .....	38	10 (3.7E 11)
Strontium-90 .....	38	0.1 (3.7E 9)
Strontium-91 .....	38	10 (3.7E 11)
Strontium-92 .....	38	100 (3.7E 12)
Sulfur-35 .....	16	1 (3.7E 10)
Tantalum-172 .....	73	100 (3.7E 12)
Tantalum-173 .....	73	100 (3.7E 12)
Tantalum-174 .....	73	100 (3.7E 12)
Tantalum-175 .....	73	100 (3.7E 12)
Tantalum-176 .....	73	10 (3.7E 11)
Tantalum-177 .....	73	1000 (3.7E 13)
Tantalum-178 .....	73	1000 (3.7E 13)
Tantalum-179 .....	73	1000 (3.7E 13)
Tantalum-180m .....	73	1000 (3.7E 13)
Tantalum-180 .....	73	100 (3.7E 12)
Tantalum-182m .....	73	1000 (3.7E 13)
Tantalum-182 .....	73	10 (3.7E 11)
Tantalum-183 .....	73	100 (3.7E 12)
Tantalum-184 .....	73	10 (3.7E 11)
Tantalum-185 .....	73	1000 (3.7E 13)
Tantalum-186 .....	73	1000 (3.7E 13)
Technetium-93m .....	43	1000 (3.7E 13)
Technetium-93 .....	43	100 (3.7E 12)
Technetium-94m .....	43	100 (3.7E 12)
Technetium-94 .....	43	10 (3.7E 11)
Technetium-96m .....	43	1000 (3.7E 13)
Technetium-96 .....	43	10 (3.7E 11)
Technetium-97m .....	43	100 (3.7E 12)
Technetium-97 .....	43	100 (3.7E 12)
Technetium-98 .....	43	10 (3.7E 11)
Technetium-99m .....	43	100 (3.7E 12)
Technetium-99 .....	43	10 (3.7E 11)
Technetium-101 .....	43	1000 (3.7E 13)
Technetium-104 .....	43	1000 (3.7E 13)
Tellurium-116 .....	52	1000 (3.7E 13)
Tellurium-121m .....	52	10 (3.7E 11)
Tellurium-121 .....	52	10 (3.7E 11)
Tellurium-123m .....	52	10 (3.7E 11)
Tellurium-123 .....	52	10 (3.7E 11)
Tellurium-125m .....	52	10 (3.7E 11)
Tellurium-127m .....	52	10 (3.7E 11)
Tellurium-127 .....	52	1000 (3.7E 13)
Tellurium-129m .....	52	10 (3.7E 11)
Tellurium-129 .....	52	1000 (3.7E 13)
Tellurium-131m .....	52	10 (3.7E 11)
Tellurium-131 .....	52	1000 (3.7E 13)
Tellurium-132 .....	52	10 (3.7E 11)
Tellurium-133m .....	52	1000 (3.7E 13)
Tellurium-133 .....	52	1000 (3.7E 13)
Tellurium-134 .....	52	1000 (3.7E 13)
Terbium-147 .....	65	100 (3.7E 12)
Terbium-149 .....	65	100 (3.7E 12)
Terbium-150 .....	65	100 (3.7E 12)
Terbium-151 .....	65	10 (3.7E 11)
Terbium-153 .....	65	100 (3.7E 12)
Terbium-154 .....	65	10 (3.7E 11)
Terbium-155 .....	65	100 (3.7E 12)
Terbium-156m (5.0 hr) .....	65	1000 (3.7E 13)
Terbium-156m (24.4 hr) .....	65	1000 (3.7E 13)
Terbium-156 .....	65	10 (3.7E 11)
Terbium-157 .....	65	100 (3.7E 12)
Terbium-158 .....	65	10 (3.7E 11)
Terbium-160 .....	65	10 (3.7E 11)
Terbium-161 .....	65	100 (3.7E 12)
Thallium-194m .....	81	100 (3.7E 12)
Thallium-194 .....	81	1000 (3.7E 13)
Thallium-195 .....	81	100 (3.7E 12)
Thallium-197 .....	81	100 (3.7E 12)
Thallium-198m .....	81	100 (3.7E 12)

**APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued**

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Thallium-198 .....	81	10 (3.7E 11)
Thallium-199 .....	81	100 (3.7E 12)
Thallium-200 .....	81	10 (3.7E 11)
Thallium-201 .....	81	1000 (3.7E 13)
Thallium-202 .....	81	10 (3.7E 11)
Thallium-204 .....	81	10 (3.7E 11)
Thorium-226 .....	90	100 (3.7E 12)
Thorium-227 .....	90	1 (3.7E 10)
Thorium-228 .....	90	0.01 (3.7E 8)
Thorium-229 .....	90	0.001 (3.7E 7)
Thorium-230 .....	90	0.01 (3.7E 8)
Thorium-231 .....	90	100 (3.7E 12)
Thorium-232 $\Phi$ .....	90	0.001 (3.7E 7)
Thorium-234 .....	90	100 (3.7E 12)
Thulium-162 .....	69	1000 (3.7E 13)
Thulium-166 .....	69	10 (3.7E 11)
Thulium-167 .....	69	100 (3.7E 12)
Thulium-170 .....	69	10 (3.7E 11)
Thulium-171 .....	69	100 (3.7E 12)
Thulium-172 .....	69	100 (3.7E 12)
Thulium-173 .....	69	100 (3.7E 12)
Thulium-175 .....	69	1000 (3.7E 13)
Tin-110 .....	50	100 (3.7E 12)
Tin-111 .....	50	1000 (3.7E 13)
Tin-113 .....	50	10 (3.7E 11)
Tin-117m .....	50	100 (3.7E 12)
Tin-119m .....	50	10 (3.7E 11)
Tin-121m .....	50	10 (3.7E 11)
Tin-121 .....	50	1000 (3.7E 13)
Tin-123m .....	50	1000 (3.7E 13)
Tin-123 .....	50	10 (3.7E 11)
Tin-125 .....	50	10 (3.7E 11)
Tin-126 .....	50	1 (3.7E 10)
Tin-127 .....	50	100 (3.7E 12)
Tin-128 .....	50	1000 (3.7E 13)
Titanium-44 .....	22	1 (3.7E 10)
Titanium-45 .....	22	1000 (3.7E 13)
Tungsten-176 .....	74	1000 (3.7E 13)
Tungsten-177 .....	74	100 (3.7E 12)
Tungsten-178 .....	74	100 (3.7E 12)
Tungsten-179 .....	74	1000 (3.7E 13)
Tungsten-181 .....	74	100 (3.7E 12)
Tungsten-185 .....	74	10 (3.7E 11)
Tungsten-187 .....	74	100 (3.7E 12)
Tungsten-188 .....	74	10 (3.7E 11)
Uranium-230 .....	92	1 (3.7E 10)
Uranium-231 .....	92	1000 (3.7E 13)
Uranium-232 .....	92	0.01 (3.7E 8)
Uranium-233 .....	92	0.1 (3.7E 9)
Uranium-234 $\Phi$ .....	92	0.1 (3.7E 9)
Uranium-235 $\Phi$ .....	92	0.1 (3.7E 9)
Uranium-236 .....	92	0.1 (3.7E 9)
Uranium-237 .....	92	100 (3.7E 12)
Uranium-238 $\Phi$ .....	92	0.18 (3.7E 9)
Uranium-239 .....	92	1000 (3.7E 13)
Uranium-240 .....	92	1000 (3.7E 13)
Vanadium-47 .....	23	1000 (3.7E 13)
Vanadium-48 .....	23	10 (3.7E 11)
Vanadium-49 .....	23	1000 (3.7E 13)
Xenon-120 .....	54	100 (3.7E 12)
Xenon-121 .....	54	10 (3.7E 11)
Xenon-122 .....	54	100 (3.7E 12)
Xenon-123 .....	54	10 (3.7E 11)
Xenon-125 .....	54	100 (3.7E 12)
Xenon-127 .....	54	100 (3.7E 12)
Xenon-129m .....	54	1000 (3.7E 13)
Xenon-131m .....	54	1000 (3.7E 13)
Xenon-133m .....	54	1000 (3.7E 13)
Xenon-133 .....	54	1000 (3.7E 13)
Xenon-135m .....	54	10 (3.7E 11)

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### APPENDIX B TO § 302.4—RADIONUCLIDES—Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Xenon-135 .....	54	100 (3.7E 12)
Xenon-138 .....	54	10 (3.7E 11)
Ytterbium-162 .....	70	1000 (3.7E 13)
Ytterbium-166 .....	70	10 (3.7E 11)
Ytterbium-167 .....	70	1000 (3.7E 13)
Ytterbium-169 .....	70	10 (3.7E 11)
Ytterbium-175 .....	70	100 (3.7E 12)
Ytterbium-177 .....	70	1000 (3.7E 13)
Ytterbium-178 .....	70	1000 (3.7E 13)
Yttrium-86m .....	39	1000 (3.7E 13)
Yttrium-86 .....	39	10 (3.7E 11)
Yttrium-87 .....	39	10 (3.7E 11)
Yttrium-88 .....	39	10 (3.7E 11)
Yttrium-90m .....	39	100 (3.7E 12)
Yttrium-90 .....	39	10 (3.7E 11)
Yttrium-91m .....	39	1000 (3.7E 13)
Yttrium-91 .....	39	10 (3.7E 11)
Yttrium-92 .....	39	100 (3.7E 12)
Yttrium-93 .....	39	100 (3.7E 12)
Yttrium-94 .....	39	1000 (3.7E 13)
Yttrium-95 .....	39	1000 (3.7E 13)
Zinc-62 .....	30	100 (3.7E 12)
Zinc-63 .....	30	1000 (3.7E 13)
Zinc-65 .....	30	10 (3.7E 11)
Zinc-69m .....	30	100 (3.7E 12)
Zinc-69 .....	30	1000 (3.7E 13)
Zinc-71m .....	30	100 (3.7E 12)
Zinc-72 .....	30	100 (3.7E 12)
Zirconium-86 .....	40	100 (3.7E 12)
Zirconium-88 .....	40	10 (3.7E 11)
Zirconium-89 .....	40	100 (3.7E 12)
Zirconium-93 .....	40	1 (3.7E 10)
Zirconium-95 .....	40	10 (3.7E 11)
Zirconium-97 .....	40	10 (3.7E 11)

Ci—Curie. The curie represents a rate of radioactive decay. One curie is the quantity of any radioactive nuclide which undergoes 3.7E 10 disintegrations per second.

Bq—Becquerel. The becquerel represents a rate of radioactive decay. One becquerel is the quantity of any radioactive nuclide which undergoes one disintegration per second. One curie is equal to 3.7E 10 becquerel.

@—Final RQs for all radionuclides apply to chemical compounds containing the radionuclides and elemental forms regardless of the diameter of pieces of solid material.

&—The adjusted RQ of one curie applies to all radionuclides not otherwise listed. Whenever the RQs in table 302.4 and this appendix to the table are in conflict, the lowest RQ shall apply. For example, uranyl acetate and uranyl nitrate have adjusted RQs shown in table 302.4 of 100 pounds, equivalent to about one-tenth the RQ level for uranium-238 listed in this appendix.

E—Exponent to the base 10. For example, 1.3E 2 is equal to 130 while 1.3E 3 is equal to 1300.

m—Signifies a nuclear isomer which is a radionuclide in a higher energy metastable state relative to the parent isotope.

o—Notification requirements for releases of mixtures or solutions of radionuclides can be found in § 302.6(b) of this rule. Final RQs for the following four common radionuclide mixtures are provided: radium-226 in secular equilibrium with its daughters (0.053 curie); natural uranium (0.1 curie); natural uranium in secular equilibrium with its daughters (0.052 curie); and natural thorium in secular equilibrium with its daughters (0.011 curie).

[54 FR 33449, Aug. 14, 1989]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 302.4, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

## 40 CFR Ch. I (7-1-10 Edition)

### § 302.5 Determination of reportable quantities.

(a) *Listed hazardous substances.* The quantity listed in the column “Final RQ” for each substance in table 302.4, or in appendix B to table 302.4, is the reportable quantity (RQ) for that substance. The RQs in table 302.4 are in units of pounds based on chemical toxicity, while the RQs in appendix B to table 302.4 are in units of curies based on radiation hazard. Whenever the RQs in table 302.4 and appendix B to the table are in conflict, the lowest RQ shall apply.

(b) *Unlisted hazardous substances.* Unlisted hazardous substances designated by 40 CFR 302.4(b) have the reportable quantity of 100 pounds, except for those unlisted hazardous wastes which exhibit toxicity identified in 40 CFR 261.24. Unlisted hazardous wastes which exhibit toxicity have the reportable quantities listed in Table 302.4 for the contaminant on which the characteristic of toxicity is based. The reportable quantity applies to the waste itself, not merely to the toxic contaminant. If an unlisted hazardous waste exhibits toxicity on the basis of more than one contaminant, the reportable quantity for that waste shall be the lowest of the reportable quantities listed in Table 302.4 for those contaminants. If an unlisted hazardous waste exhibits the characteristic of toxicity and one or more of the other characteristics referenced in 40 CFR 302.4(b), the reportable quantity for that waste shall be the lowest of the applicable reportable quantities.

[51 FR 34547, Sept. 29, 1986, as amended at 54 FR 22538, May 24, 1989; 67 FR 45356, July 9, 2002]

### § 302.6 Notification requirements.

(a) Any person in charge of a vessel or an offshore or an onshore facility shall, as soon as he or she has knowledge of any release (other than a federally permitted release or application of a pesticide) of a hazardous substance from such vessel or facility in a quantity equal to or exceeding the reportable quantity determined by this part in any 24-hour period, immediately notify the National Response Center (800) 424-8802; in Washington, DC (202) 426-2675 or (202) 267-2675; the facsimile

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number is (202) 267-2165; and the telex number is 892427).

(b) Releases of mixtures or solutions (including hazardous waste streams) of

(1) Hazardous substances, except for radionuclides, are subject to the following notification requirements:

(i) If the quantity of all of the hazardous constituent(s) of the mixture or solution is known, notification is required where an RQ or more of any hazardous constituent is released;

(ii) If the quantity of one or more of the hazardous constituents of the mixture or solution is unknown, notification is required where the total amount of the mixture or solution released equals or exceeds the RQ for the hazardous constituent with the lowest RQ; or

(iii) For waste streams K169, K170, K171, K172, K174, and K175, knowledge of the quantity of all of the hazardous constituent(s) may be assumed, based on the following maximum observed constituent concentrations identified by EPA:

Waste	Constituent	max ppm
K174 .....	2,3,7,8-TCDD .....	0.000039
	1,2,3,7,8-PeCDD .....	0.0000108
	1,2,3,4,7,8-HxCDD .....	0.0000241
	1,2,3,6,7,8-HxCDD .....	0.000083
	1,2,3,7,8,9-HxCDD .....	0.000062
	1,2,3,4,6,7,8-HpCDD .....	0.00123
	OCDD .....	0.0129
	2,3,7,8-TCDF .....	0.000145
	1,2,3,7,8-PeCDF .....	0.0000777
	2,3,4,7,8-PeCDF .....	0.000127
	1,2,3,4,7,8-HxCDF .....	0.001425
	1,2,3,6,7,8-HxCDF .....	0.000281
	1,2,3,7,8,9-HxCDF .....	0.00014
	2,3,4,6,7,8-HxCDF .....	0.000648
	1,2,3,4,6,7,8-HpCDF .....	0.0207
	1,2,3,4,7,8,9-HpCDF .....	0.0135
	OCDF .....	0.212
K175 .....	Mercury .....	9200

(2) Radionuclides are subject to this section's notification requirements only in the following circumstances:

(i) If the identity and quantity (in curies) of each radionuclide in a released mixture or solution is known, the ratio between the quantity released (in curies) and the RQ for the radionuclide must be determined for each radionuclide. The only such releases subject to this section's notification requirements are those in which the sum of the ratios for the radionuclides in the mixture or solution released is equal to or greater than one.

(ii) If the identity of each radionuclide in a released mixture or solution is known but the quantity released (in curies) of one or more of the radionuclides is unknown, the only such releases subject to this section's notification requirements are those in which the total quantity (in curies) of the mixture or solution released is equal to or greater than the lowest RQ of any individual radionuclide in the mixture or solution.

(iii) If the identity of one or more radionuclides in a released mixture or solution is unknown (or if the identity of a radionuclide released by itself is unknown), the only such releases subject to this section's notification requirements are those in which the total quantity (in curies) released is equal to or greater than either one curie or the lowest RQ of any known individual radionuclide in the mixture or solution, whichever is lower.

(c) The following categories of releases are exempt from the notification requirements of this section:

(1) Releases of those radionuclides that occur naturally in the soil from land holdings such as parks, golf courses, or other large tracts of land.

(2) Releases of naturally occurring radionuclides from land disturbance activities, including farming, construction, and land disturbance incidental to extraction during mining activities, except that which occurs at uranium, phosphate, tin, zircon, hafnium, vanadium, monazite, and rare earth mines. Land disturbance incidental to extraction includes: land clearing; overburden removal and stockpiling; excavating, handling, transporting, and storing ores and other raw (not beneficiated or processed) materials; and replacing in mined-out areas coal ash, earthen materials from farming or construction, or overburden or other raw materials generated from the exempted mining activities.

(3) Releases of radionuclides from the dumping and transportation of coal and coal ash (including fly ash, bottom ash, and boiler slags), including the dumping and land spreading operations that occur during coal ash uses.

(4) Releases of radionuclides from piles of coal and coal ash, including fly ash, bottom ash, and boiler slags.

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(d) Except for releases of radionuclides, notification of the release of an RQ of solid particles of antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, or zinc is not required if the mean diameter of the particles released is larger than 100 micrometers (0.004 inches).

(e) The following releases are exempt from the notification requirements of this section:

(1) Releases in amounts less than 1,000 pounds per 24 hours of nitrogen oxide to the air which are the result of combustion and combustion-related activities.

(2) Releases in amounts less than 1,000 pounds per 24 hours of nitrogen dioxide to the air which are the result of combustion and combustion-related activities.

(3) Releases to the air of any hazardous substance from animal waste at farms.

[50 FR 13474, Apr. 4, 1985, as amended at 54 FR 22538, May 24, 1989; 54 FR 33481, Aug. 14, 1989; 63 FR 13475, Mar. 19, 1998; 63 FR 42189, Aug. 6, 1998; 64 FR 13114, Mar. 17, 1999; 65 FR 87132, Nov. 8, 2001; 67 FR 45356, July 9, 2002; 71 FR 58533, Oct. 4, 2006; 73 FR 76959, Dec. 18, 2008]

### § 302.7 Penalties.

(a) Any person—

(1) In charge of a vessel from which a hazardous substance is released, other than a federally permitted release, into or upon the navigable waters of the United States, adjoining shorelines, or into or upon the waters of the contiguous zone,

(2) In charge of a vessel from which a hazardous substance is released, other than a federally permitted release, 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), and who is otherwise subject to the jurisdiction of the United States at the time of the release, or

(3) In charge of a facility from which a hazardous substance is released, other than a federally permitted release, in a quantity equal to or greater than that reportable quantity deter-

mined under this part who fails to notify immediately the National Response Center as soon as he or she has knowledge of such release or who submits in such a notification any information which he knows to be false or misleading shall be subject to all of the sanctions, including criminal penalties, set forth in section 103(b) of the Act.

(b) Notification received pursuant to this section or information obtained by the exploitation of such notification shall not be used against any such person in any criminal case, except a prosecution for perjury or for giving a false statement.

(c) This section shall not apply to the application of a pesticide product registered under the Federal Insecticide, Fungicide, and Rodenticide Act or to the handling and storage of such a pesticide product by an agricultural producer.

[50 FR 13474, Apr. 4, 1985, as amended at 67 FR 45356, July 9, 2002]

### § 302.8 Continuous releases.

(a) Except as provided in paragraph (c) of this section, no notification is required for any release of a hazardous substance that is, pursuant to the definitions in paragraph (b) of this section, continuous and stable in quantity and rate.

(b) *Definitions.* The following definitions apply to notification of continuous releases:

*Continuous.* A continuous release is a release that occurs without interruption or abatement or that is routine, anticipated, and intermittent and incidental to normal operations or treatment processes.

*Normal range.* The normal range of a release is all releases (in pounds or kilograms) of a hazardous substance reported or occurring over any 24-hour period under normal operating conditions during the preceding year. Only releases that are both continuous and stable in quantity and rate may be included in the normal range.

*Routine.* A routine release is a release that occurs during normal operating procedures or processes.

*Stable in quantity and rate.* A release that is stable in quantity and rate is a

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release that is predictable and regular in amount and rate of emission.

*Statistically significant increase.* A statistically significant increase in a release is an increase in the quantity of the hazardous substance released above the upper bound of the reported normal range of the release.

(c) *Notification.* The following notifications shall be given for any release qualifying for reduced reporting under this section:

(1) Initial telephone notification;

(2) Initial written notification within 30 days of the initial telephone notification;

(3) Follow-up notification within 30 days of the first anniversary date of the initial written notification;

(4) Notification of a change in the composition or source(s) of the release or in the other information submitted in the initial written notification of the release under paragraph (c)(2) of this section or the follow-up notification under paragraph (c)(3) of this section; and

(5) Notification at such times as an increase in the quantity of the hazardous substance being released during any 24-hour period represents a statistically significant increase as defined in paragraph (b) of this section.

(d) *Initial telephone notification.* Prior to making an initial telephone notification of a continuous release, the person in charge of a facility or vessel must establish a sound basis for qualifying the release for reporting under CERCLA section 103(f)(2) by:

(1) Using release data, engineering estimates, knowledge of operating procedures, or best professional judgment to establish the continuity and stability of the release;

(2) Reporting the release to the National Response Center for a period sufficient to establish the continuity and stability of the release; or

(3) When a person in charge of the facility or vessel believes that a basis has been established to qualify the release for reduced reporting under this section, initial notification to the National Response Center shall be made by telephone. The person in charge must identify the notification as an initial continuous release notification

report and provide the following information:

(i) The name and location of the facility or vessel; and

(ii) The name(s) and identity(ies) of the hazardous substance(s) being released.

(e) *Initial written notification.* Initial written notification of a continuous release shall be made to the appropriate EPA Regional Office for the geographical area where the releasing facility or vessel is located. (Note: In addition to the requirements of this part, releases of CERCLA hazardous substances are also subject to the provisions of SARA title III section 304, and EPA's implementing regulations codified at 40 CFR part 355, which require initial telephone and written notifications of continuous releases to be submitted to the appropriate State emergency response commission and local emergency planning committee.)

(1) Initial written notification to the appropriate EPA Regional Office shall occur within 30 days of the initial telephone notification to the National Response Center, and shall include, for each release for which reduced reporting as a continuous release is claimed, the following information:

(i) The name of the facility or vessel; the location, including the latitude and longitude; the case number assigned by the National Response Center or the Environmental Protection Agency; the Dun and Bradstreet number of the facility, if available; the port of registration of the vessel; the name and telephone number of the person in charge of the facility or vessel.

(ii) The population density within a one-mile radius of the facility or vessel, described in terms of the following ranges: 0–50 persons, 51–100 persons, 101–500 persons, 501–1,000 persons, more than 1,000 persons.

(iii) The identity and location of sensitive populations and ecosystems within a one-mile radius of the facility or vessel (e.g., elementary schools, hospitals, retirement communities, or wetlands).

(iv) For each hazardous substance release claimed to qualify for reporting under CERCLA section 103(f)(2), the following information must be supplied:

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- (A) The name/identity of the hazardous substance; the Chemical Abstracts Service Registry Number for the substance (if available); and if the substance being released is a mixture, the components of the mixture and their approximate concentrations and quantities, by weight.
- (B) The upper and lower bounds of the normal range of the release (in pounds or kilograms) over the previous year.
- (C) The source(s) of the release (e.g., valves, pump seals, storage tank vents, stacks). If the release is from a stack, the stack height (in feet or meters).
- (D) The frequency of the release and the fraction of the release from each release source and the specific period over which it occurs.
- (E) A brief statement describing the basis for stating that the release is continuous and stable in quantity and rate.
- (F) An estimate of the total annual amount that was released in the previous year (in pounds or kilograms).
- (G) The environmental medium(a) affected by the release:
- (1) If surface water, the name of the surface water body;
  - (2) If a stream, the stream order or average flowrate (in cubic feet/second) and designated use;
  - (3) If a lake, the surface area (in acres) and average depth (in feet or meters);
  - (4) If on or under ground, the location of public water supply wells within two miles.
- (H) A signed statement that the hazardous substance release(s) described is(are) continuous and stable in quantity and rate under the definitions in paragraph (b) of this section and that all reported information is accurate and current to the best knowledge of the person in charge.
- (f) *Follow-up notification.* Within 30 days of the first anniversary date of the initial written notification, the person in charge of the facility or vessel shall evaluate each hazardous substance release reported to verify and update the information submitted in the initial written notification. The follow-up notification shall include the following information:
- (1) The name of the facility or vessel; the location, including the latitude and longitude; the case number assigned by the National Response Center or the Environmental Protection Agency; the Dun and Bradstreet number of the facility, if available; the port of registration of the vessel; the name and telephone number of the person in charge of the facility or vessel.
- (2) The population density within a one-mile radius of the facility or vessel, described in terms of the following ranges: 0–50 persons, 51–100 persons, 101–500 persons, 501–1,000 persons, more than 1,000 persons.
- (3) The identity and location of sensitive populations and ecosystems within a one-mile radius of the facility or vessel (e.g., elementary schools, hospitals, retirement communities, or wetlands).
- (4) For each hazardous substance release claimed to qualify for reporting under CERCLA section 103(f)(2), the following information shall be supplied:
- (i) The name/identity of the hazardous substance; the Chemical Abstracts Service Registry Number for the substance (if available); and if the substance being released is a mixture, the components of the mixture and their approximate concentrations and quantities, by weight.
  - (ii) The upper and lower bounds of the normal range of the release (in pounds or kilograms) over the previous year.
  - (iii) The source(s) of the release (e.g., valves, pump seals, storage tank vents, stacks). If the release is from a stack, the stack height (in feet or meters).
  - (iv) The frequency of the release and the fraction of the release from each release source and the specific period over which it occurs.
  - (v) A brief statement describing the basis for stating that the release is continuous and stable in quantity and rate.
  - (vi) An estimate of the total annual amount that was released in the previous year (in pounds or kilograms).
  - (vii) The environmental medium(a) affected by the release:
- (A) If surface water, the name of the surface water body;

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- (1) The name of the facility or vessel; the location, including the latitude and longitude; the case number assigned by the National Response Center or the Environmental Protection Agency; the Dun and Bradstreet number of the facility, if available; the port of registration of the vessel; the name and telephone number of the person in charge of the facility or vessel.
- (2) The population density within a one-mile radius of the facility or vessel, described in terms of the following ranges: 0–50 persons, 51–100 persons, 101–500 persons, 501–1,000 persons, more than 1,000 persons.
- (3) The identity and location of sensitive populations and ecosystems within a one-mile radius of the facility or vessel (e.g., elementary schools, hospitals, retirement communities, or wetlands).
- (4) For each hazardous substance release claimed to qualify for reporting under CERCLA section 103(f)(2), the following information shall be supplied:
- (i) The name/identity of the hazardous substance; the Chemical Abstracts Service Registry Number for the substance (if available); and if the substance being released is a mixture, the components of the mixture and their approximate concentrations and quantities, by weight.
  - (ii) The upper and lower bounds of the normal range of the release (in pounds or kilograms) over the previous year.
  - (iii) The source(s) of the release (e.g., valves, pump seals, storage tank vents, stacks). If the release is from a stack, the stack height (in feet or meters).
  - (iv) The frequency of the release and the fraction of the release from each release source and the specific period over which it occurs.
  - (v) A brief statement describing the basis for stating that the release is continuous and stable in quantity and rate.
  - (vi) An estimate of the total annual amount that was released in the previous year (in pounds or kilograms).
  - (vii) The environmental medium(a) affected by the release:
- (A) If surface water, the name of the surface water body;

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(B) If a stream, the stream order or average flowrate (in cubic feet/second) and designated use;

(C) If a lake, the surface area (in acres) and average depth (in feet or meters);

(D) If on or under ground, the location of public water supply wells within two miles.

(viii) A signed statement that the hazardous substance release(s) is(are) continuous and stable in quantity and rate under the definitions in paragraph (b) of this section and that all reported information is accurate and current to the best knowledge of the person in charge.

(g) *Notification of changes in the release.* If there is a change in the release, notification of the change, not otherwise reported, shall be provided in the following manner:

(1) *Change in source or composition.* If there is any change in the composition or source(s) of the release, the release is a new release and must be qualified for reporting under this section by the submission of initial telephone notification and initial written notification in accordance with paragraphs (c) (1) and (2) of this section as soon as there is a sufficient basis for asserting that the release is continuous and stable in quantity and rate;

(2) *Change in the normal range.* If there is a change in the release such that the quantity of the release exceeds the upper bound of the reported normal range, the release must be reported as a statistically significant increase in the release. If a change will result in a number of releases that exceed the upper bound of the normal range, the person in charge of a facility or vessel may modify the normal range by:

(i) Reporting at least one statistically significant increase report as required under paragraph (c)(7) of this section and, at the same time, informing the National Response Center of the change in the normal range; and

(ii) Submitting, within 30 days of the telephone notification, written notification to the appropriate EPA Regional Office describing the new normal range, the reason for the change, and the basis for stating that the release in the increased amount is con-

tinuous and stable in quantity and rate under the definitions in paragraph (b) of this section.

(3) *Changes in other reported information.* If there is a change in any information submitted in the initial written notification or the followup notification other than a change in the source, composition, or quantity of the release, the person in charge of the facility or vessel shall provide written notification of the change to the EPA Region for the geographical area where the facility or vessel is located, within 30 days of determining that the information submitted previously is no longer valid. Notification shall include the reason for the change, and the basis for stating that the release is continuous and stable under the changed conditions.

(4) Notification of changes shall include the case number assigned by the National Response Center or the Environmental Protection Agency and also the signed certification statement required at (c)(2)(xi) of this section.

(h) *Notification of a statistically significant increase in a release.* Notification of a statistically significant increase in a release shall be made to the National Response Center as soon as the person in charge of the facility or vessel has knowledge of the increase. The release must be identified as a statistically significant increase in a continuous release. A determination of whether an increase is a "statistically significant increase" shall be made based upon calculations or estimation procedures that will identify releases that exceed the upper bound of the reported normal range.

(i) *Annual evaluation of releases.* Each hazardous substance release shall be evaluated annually to determine if changes have occurred in the information submitted in the initial written notification, the followup notification, and/or in a previous change notification.

(j) *Use of the SARA Title III section 313 form.* In lieu of an initial written report or a followup report, owners or operators of facilities subject to the requirements of SARA title III section 313 may submit to the appropriate EPA Regional Office for the geographical area where the facility is located, a

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copy of the Toxic Release Inventory form submitted under SARA Title III section 313 the previous July 1, provided that the following information is added:

(1) The population density within a one-mile radius of the facility or vessel, described in terms of the following ranges: 0–50 persons, 51–100 persons, 101–500 persons, 501–1,000 persons, more than 1,000 persons.

(2) The identity and location of sensitive populations and ecosystems within a one-mile radius of the facility or vessel (e.g., elementary schools, hospitals, retirement communities, or wetlands).

(3) For each hazardous substance release claimed to qualify for reporting under CERCLA section 103(f)(2), the following information must be supplied:

(i) The upper and lower bounds of the normal range of the release (in pounds or kilograms) over the previous year.

(ii) The frequency of the release and the fraction of the release from each release source and the specific period over which it occurs.

(iii) A brief statement describing the basis for stating that the release is continuous and stable in quantity and rate.

(iv) A signed statement that the hazardous substance release(s) is(are) continuous and stable in quantity and rate under the definitions in paragraph (b) of this section and that all reported information is accurate and current to the best knowledge of the person in charge.

(k) *Documentation supporting notification.* Where necessary to satisfy the requirements of this section, the person in charge may rely on recent release data, engineering estimates, the operating history of the facility or vessel, or other relevant information to support notification. All supporting documents, materials, and other information shall be kept on file at the facility, or in the case of a vessel, at an office within the United States in either a port of call, a place of regular berthing, or the headquarters of the business operating the vessel. Supporting materials shall be kept on file for a period of one year and shall substantiate the reported normal range of releases, the basis for stating that the release is

continuous and stable in quantity and rate, and the other information in the initial written report, the followup report, and the annual evaluations required under paragraphs (e), (f), and (i), respectively. Such information shall be made available to EPA upon request as necessary to enforce the requirements of this section.

(l) *Multiple concurrent releases.* Multiple concurrent releases of the same substance occurring at various locations with respect to contiguous plants or installations upon contiguous grounds that are under common ownership or control may be considered separately or added together in determining whether such releases constitute a continuous release or a statistically significant increase under the definitions in paragraph (b) of this section; whichever approach is elected for purposes of determining whether a release is continuous also must be used to determine a statistically significant increase in the release.

(m) *Penalties for failure to comply.* The reduced reporting requirements provided for under this section shall apply only so long as the person in charge complies fully with all requirements of paragraph (c) of this section. Failure to comply with respect to any release from the facility or vessel shall subject the person in charge to all of the reporting requirements of §302.6 for each such release, to the penalties under §302.7, and to any other applicable penalties provided for by law.

[55 FR 30185, July 24, 1990, as amended at 67 FR 45357, July 9, 2002]

**PART 303—CITIZEN AWARDS FOR INFORMATION ON CRIMINAL VIOLATIONS UNDER SUPERFUND**

**Subpart A—General**

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303.10 Purpose.

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303.12 Criminal violations covered by this award authority.

**Subpart B—Eligibility To File a Claim for Award and Determination of Eligibility and Amount of Award**

303.20 Eligibility to file a claim for award.