

**DEPARTMENT OF TRANSPORTATION****Research and Special Programs Administration****49 CFR Parts 171 and 172****(Docket No. HM-145F, Amdt. Nos. 171-90, 172-108)****Hazardous Substances; Corrections****AGENCY:** Research and Special Programs Administration (RSPA), Department of Transportation (DOT).**ACTION:** Final rule; corrections.

**SUMMARY:** This document corrects errors in the regulatory text of a final rule issued under Docket HM-145F, Amendment Numbers 171-90 and 172-108, entitled *Hazardous Substances*, which was published in the *Federal Register* on Friday, November 21, 1986 [51 FR 42174]. This document also authorizes the use of "D" numbers to identify EPA unlisted hazardous wastes which exhibit "ICRE" characteristics.

**FOR FURTHER INFORMATION CONTACT:** Lee Jackson, (202) 368-4488 or George Cushmac, (202) 368-4545, Office of Hazardous Materials Transportation, RSPA, Washington, DC 20590. Questions about hazardous substance designations or reportable quantities should be directed to the EPA. Call the RCRA/Superfund hotline at (800) 424-9346, or in Washington, DC, (202) 382-3000.

**SUPPLEMENTARY INFORMATION:** On November 21, 1986, RSPA amended the Hazardous Materials Regulations (HMR) by incorporating into the HMR, as hazardous materials, all substances designated as hazardous substances under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). This action was necessary to comply with the Superfund Amendments and Reauthorization Act of 1986. In the final rule, hazardous substances and their reportable quantities (RQs) were listed in an Appendix to § 172.101. In addition, the final rule contained amendments making the HMR applicable to these hazardous substances. The effective date of that final rule was January 1, 1987. However, RSPA published an amendment on December 24, 1986 (51 FR 46672) which extends that effective date to July 1, 1987, to afford shippers sufficient time to comply with the rule. This amendment corrects the errors which appear in the regulatory text of that rule.

Paragraph (d)(1)(i) of § 171.11 is revised to clearly indicate the correct format for adding additional descriptive information when the proper shipping

name does not include the name of the hazardous substance.

Sections 171.12a(a)(3) and 172.102(e) are revised to reference applicable description requirements for hazardous substances in §§ 172.203(c) and 172.324. This corrects certain grammatical errors and clarifies the application of requirements. Editorially, paragraph (c) of § 172.101 is amended by removing the reference contained in this paragraph to paragraph (b)(4), since the symbol "E" no longer appears in Column 1 of the Hazardous Materials Table. Further, the spelling of the word "ignitability" is changed everywhere it appears in the regulatory text so that the spelling of the word is consistent with EPA's spelling (i.e., ignitability).

In the Appendix to § 172.101 which begins on page 42177, paragraphs 2, 3 and 4 of the introductory text to the List of Hazardous Substances and Reportable Quantities are revised for clarity and to correct certain errors which appeared upon publication. The portion of paragraph 2 which appears on page 42178 is revised to include reference to "K numbers" since waste streams are referenced by both "F" and "K" numbers.

Several changes are made to the List of Hazardous Substances and Reportable Quantities. A few of the reportable quantities are changed (either raised or lowered) because of incorrect entries in the original list. Many of the broad generic categories of materials which appear on the list in upper case letters are removed from the list because there are no RQ's assigned to these categories. Also removed from each of these entries are the two asterisks (\*\*) which reference a footnote that stated no RQ is being assigned to that particular generic or broad class. These entries and the footnote are removed because, by definition, a material must have a reportable quantity to be a hazardous substance. Several adjustments are made to certain entries on the list by revising, removing, or adding either the entire line entry or a portion of the entry. Some entries on the list are rearranged so they appear in correct alphabetical sequence.

The symbols "\*" and "@" are deleted from certain entries which appear on the list because either the exact name of the hazardous substance does not appear in the § 172.101 Hazardous Materials Table or the name of the synonym for the hazardous substance which RSPA added is inappropriate. The footnote at the end of the list which is referenced by the symbol "\*" is removed because it refers to EPA requirements. This symbol is also removed from the entries "RADIONUCLIDES", "Ferric dextran"

and "Iron dextran". The symbol "#" which appears on the list after certain "F" and "K" numbered wastes and at the end of the list as a footnote is removed because it is inappropriate. The footnote represented by the symbol "€" is revised to state explicitly that solid metals which are in pieces whose particle size is larger than 100 micrometers (0.004 inches) are not hazardous substances under the HMR. For convenience, the appendix to § 172.101 is reprinted in its entirety.

On page 42195, paragraph (c) of § 172.203 is revised to clarify when the name or names of hazardous substance constituents must appear in parentheses on the shipping paper in association with the basic description. On this same page, § 172.324 is revised for ease of understanding and to plainly state when the name or names of a hazardous substance constituent must be marked in parentheses on a package having a capacity of 110 gallons or less. Changing each of these paragraphs removes the limitation contained in the final rule that made the requirement for additional information apply only to mixtures or solutions. It now applies to shipments of pure materials as well.

The use of EPA waste numbers to identify waste streams ("F" and "K" numbers) was discussed in the preamble to the final rule (page 42175, column 2). For waste streams, the EPA waste number must be entered on shipping papers in association with the basic description (not . . . "in association with the proper shipping name." . . . as originally stated). The EPA waste number for the waste stream must also be marked on non-bulk packagings (those of 110 gallons or less) in association with the proper shipping name.

Since the final rule authorized the use of "F" and "K" numbers to identify waste streams, many people have inquired about the acceptability of using "D" numbers to identify EPA unlisted hazardous wastes which exhibit "ICRE" characteristics. Upon consideration of these comments, RSPA agrees that the use of "D" numbers should be an authorized alternative to showing the letters "EPA" and the applicable ICRE characteristic. Therefore, RSPA is revising the appropriate sections of the rules text to allow the use of the terms "EPA ignitability" or "EPA corrosivity" or "EPA reactivity" or "EPA EP toxicity", as appropriate or use of the corresponding "D" number, as appropriate, on shipping papers in association with the basic description and as marking on non-bulk packagings (those of 110 gallons or less) in

association with the proper shipping name.

**Administrative Notices**

Because the amendments adopted herein were mandated by the Superfund Amendments and Reauthorization Act of 1986 (Pub. L. 99-499, October 17, 1986), it has been determined that notice and public procedure are contrary to the public interest. No determinations have been made under the Regulatory Flexibility Act (5 U.S.C. 601, *et seq.*).

Under the terms of "DOT Regulatory Policies and Procedures" (44 FR 11034, February 26, 1979), since these amendments are part of an emergency rulemaking governed by a short-term statutory deadline, no determination has been made as to whether it is "significant".

I certify that these amendments do not require preparation of an environmental impact statement under the National Environmental Policy Act (49 U.S.C. 4321, *et seq.*).

Although the provisions of Pub. L. 99-499 provide insufficient time for RSPA to perform the required analyses and make required findings under the applicable statutory, regulatory, and executive authorities, the agency is aware that amendments of such broad applicability may produce significant impacts on industry segments, a substantial number of which may be small enterprises.

Because RSPA's role in regulating hazardous substances is directly tied to EPA's ongoing hazardous substances responsibility, primarily through the agency's determination of reportable quantities, amendments will be made to HMR as necessary to satisfy the intent of Congress expressed in Pub. L. 99-499.

In consideration of the foregoing, the following changes are made to Docket HM-145F [51 FR 42174, November 21, 1986], Amendment Numbers 171-90 and 172-108:

**PART 171—GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS**

1. In § 171.11, paragraph (d)(1)(i) found in column 1 on page 42177 is correctly revised to read as follows:

**§ 171.11 Use of ICAO Technical Instructions.**

- (d) \* \* \*
- (1) \* \* \*
- (i) One of the following additional descriptions shall be entered, in parentheses, in association with the basic description on shipping papers and in association with the proper shipping name required to be marked on packages:

(A) The name of the hazardous substance as shown in the appendix to § 172.101 of this subchapter, unless the proper shipping name required by the ICAO Technical Instructions already includes the name of the hazardous substance; or

(B) For waste streams, the waste stream number; or

(C) For wastes which exhibit an EPA characteristic of ignitability, corrosivity, reactivity, or EP toxicity, the letters "EPA" followed by the word "ignitability"; or "corrosivity"; or "reactivity"; or "EP toxicity", as appropriate or the corresponding "D" number, as appropriate.

2. On page 42177, amendment number 4, "(a)(3)(i) is revised to read as follows" is corrected to read "(a)(3) is revised to read as follows" and the correct paragraph is set forth below:

**§ 171.12a Canadian shipments and packagings.**

- (a) \* \* \*
- (3) When a hazardous material which is subject to the requirements of the TDG Regulations is also a hazardous substance as defined in this subchapter, the additional description requirements for hazardous substances in §§ 172.203(c) and 172.324 are applicable.

**PART 172—HAZARDOUS MATERIALS TABLE AND HAZARDOUS MATERIALS COMMUNICATIONS REGULATIONS**

3. The authority citation for 49 CFR Part 172 continues to read as follows:

Authority: 49 U.S.C. 1803, 1804, 1805, and 1808; Pub. L. 99-499; and 49 CFR Part 1, unless otherwise noted.

**§ 172.101 [Amended]**

4. In § 172.101, paragraph (c) is amended by removing the reference to paragraph (b)(4).

5. Beginning in the third column of page 42177, the appendix to § 172.101 is correctly added to read as follows:

**Appendix to § 172.101—List of Hazardous Substances and Reportable Quantities**

1. This appendix lists materials and their corresponding reportable quantities (RQs) which are listed or designated as "hazardous substances" under section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA; Pub. L. 96-510). A material in this list is regulated as a hazardous material and a hazardous substance under this subchapter if it meets the definition of a hazardous substance in § 171.8 of this subchapter.

2. Column 1 of the list, entitled "Hazardous substances", contains the names of hazardous substances. Elements and compounds are listed first in alphabetical sequence. Following the listing of elements and compounds is a listing of waste streams. These waste streams appear on the list in numerical sequence and are referenced by the appropriate "F" or "K" numbers. Column 2 of the list, entitled "Synonyms", contains the names of synonyms for certain elements and compounds listed in Column 1. No synonyms are listed for waste streams. Synonyms are useful in identifying hazardous substances and in identifying proper shipping names. Column 3 of the list, entitled "Reportable quantity (RQ)", contains the reportable quantity (RQ), in pounds and kilograms, for each hazardous substance listed in Column 1.

3. The procedure for selecting a proper shipping name for a hazardous substance is set forth in § 172.101(c)(9).

4. A series of notes is used throughout the list to provide additional information concerning certain hazardous substances. These notes are explained at the end of the list.

**LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES**

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Acenaphthene.....		100 (45.4)
Acenaphthylene.....		5000 (2270)
Acetaldehyde.....	Ethanal.....	1000 (454)
Acetaldehyde, chloro.....	Chloroacetaldehyde.....	1000 (454)
Acetaldehyde, trichloro.....	Chloral.....	1 (0.454)
Acetamide, N-(aminothioxomethyl).....	1-Acetyl-2-thiourea.....	1000 (454)
Acetamide, N-(4-ethoxyphenyl).....	Phenacetin.....	1 (0.454)
Acetamide, N-fluoren-2-yl.....	2-Acetylamino-fluorene.....	1 (0.454)
Acetamide, 2-fluoro.....	Fluoroacetamide.....	100 (45.4)
Acetic acid.....		5000 (2270)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Acetic acid, ethyl ester	Ethyl acetate	5000 (2270)
Acetic acid, fluoro-, sodium salt	Fluoroacetic acid, sodium salt	10 (4.54)
Acetic acid, lead salt	Lead acetate	5000 (2270)
Acetic acid, thallium(I) salt	Thallium(I) acetate	100 (45.4)
Acetic anhydride *		5000 (2270)
Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-methyl ester	Methomyl	100 (45.4)
Acetone	2-Propanone	5000 (2270)
Acetone cyanohydrin *	Propanenitrile, 2-hydroxy-2-methyl- 2-Methylacetonitrile	10 (4.54)
Acetonitrile *	Ethanenitrile	5000 (2270)
3-(alpha-Acetylbenzyl)-4-hydroxycoumarin and salts	Warfarin	100 (45.4)
Acetophenone	Ethanone, 1-phenyl-	5000 (2270)
2-Acetylaminofluorene	Acetamide, N-fluoren-2-yl-	1 (0.454)
Acetyl bromide *		5000 (2270)
Acetyl chloride *	Ethanoyl chloride	5000 (2270)
1-Acetyl-2-thiourea	Acetamide, N-(aminothioxomethyl)-	1000 (454)
Acrolein *	2-Propenal	1 (0.454)
Acrylamide	2-Propenamamide	5000 (2270)
Acrylic acid *	2-Propenoic acid	5000 (2270)
Acrylonitrile *	2-Propenenitrile	100 (45.4)
Adipic acid		5000 (2270)
Alanine, 3-[p-bis(2-chloroethyl)amino]phenyl-, L-	Melphalan	1 (0.454)
Aldicarb	Propanal, 2-methyl-2-(methylthio)- O-[(methylamino)carbonyl]oxime	1 (0.454)
Aldrin *	1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a-hexahydro- 1,4:5,8-endo,exo-dimethanonaphthalene	1 (0.454)
Allyl alcohol *		100 (45.4)
Allyl chloride *	2-Propen-1-ol	1000 (454)
Aluminum phosphide *		100 (45.4)
Aluminum sulfate *		5000 (2270)
2-Amino-1-methyl benzene	o-Toluidine	1 (0.454)
4-Amino-1-methyl benzene	p-Toluidine	1 (0.454)
5-(Aminomethyl)-3-isoxazolol	3(2H)-isoxazolone, 5-(aminomethyl)-	1000 (454)
4-Aminopyridine	4-Pyridinamine	1000 (454)
Antibrole	1H-1,2,4-Triazol-3-amine	1 (0.454)
Ammonia *		100 (45.4)
Ammonium acetate		5000 (2270)
Ammonium benzoate		5000 (2270)
Ammonium bicarbonate		5000 (2270)
Ammonium bichromate	Ammonium dichromate @	1000 (454)
Ammonium bifluoride *		100 (45.4)
Ammonium bisulfite *		5000 (2270)
Ammonium carbamate *		5000 (2270)
Ammonium carbonate *		5000 (2270)
Ammonium chloride		5000 (2270)
Ammonium chromate		1000 (454)
Ammonium citrate, dibasic		5000 (2270)
Ammonium dichromate @	Ammonium bichromate	1000 (454)
Ammonium fluoroborate		5000 (2270)
Ammonium fluoride *		100 (45.4)
Ammonium hydroxide *		1000 (454)
Ammonium oxalate *		5000 (2270)
Ammonium picrate *	Phenol, 2,4,6-trinitro-, ammonium salt	10 (4.54)
Ammonium silicofluoride *		1000 (454)
Ammonium sulfamate		5000 (2270)
Ammonium sulfide *		100 (45.4)
Ammonium sulfite		5000 (2270)
Ammonium tartrate		5000 (2270)
Ammonium thiocyanate		5000 (2270)
Ammonium thiosulfate		5000 (2270)
Ammonium vanadate	Vanadic acid, ammonium salt	1000 (454)
Amyl acetate *		5000 (2270)
iso-Amyl acetate		
sec-Amyl acetate		
tert-Amyl acetate		
Aniline *	Benzenamine	5000 (2270)
Anthracene		5000 (2270)
Antimony *		5000 (2270)
Antimony pentachloride *		1000 (454)
Antimony potassium tartrate *		100 (45.4)
Antimony tribromide *		1000 (454)
Antimony trichloride *		1000 (454)
Antimony trifluoride *		1000 (454)
Antimony trioxide		1000 (454)
Aroclor 1016	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
Aroclor 1221	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
Aroclor 1232	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
Aroclor 1242	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
Aroclor 1248	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
Aroclor 1254	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
Aroclor 1260	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
Arsenic *		1 (0.454)
Arsenic acid *		1 (0.454)
Arsenic disulfide *		5000 (2270)
Arsenic(III) oxide	Arsenic trioxide *	5000 (2270)
Arsenic(V) oxide	Arsenic pentoxide *	5000 (2270)
Arsenic pentoxide *	Arsenic(V) oxide	5000 (2270)
Arsenic trichloride *		5000 (2270)
Arsenic trioxide *		5000 (2270)
Arsenic trisulfide *	Arsenic(III) oxide	5000 (2270)

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RC) Pounds (Kilograms)
Arsine, diethyl	Diethylarsine	1 (0.454)
Asbestos *		1 (0.454)
Auramine	Benzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl-	1 (0.454)
Azaserine	L-Serine, diazoacetate (ester)	1 (0.454)
Azidine	Ethylenimine	1 (0.454)
Azinos methyl @	Guthion *	1 (0.454)
Azino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione,8-amino-8-((aminocarbonyloxy)methyl)-1,1a,2,6,8a,8b-hexahydro-8a-methoxy-5-methyl-	Mitomycin C	1 (0.454)
Barium cyanide *		10 (4.54)
Benz[ <i>l</i> ]aceanthrylene, 1,2-dihydro-3-methyl	3-Methylcholanthrene	1 (0.454)
Benz[ <i>c</i> ]acridine	3,4-Benzacridine	1 (0.454)
3,4-Benzacridine	Benz[ <i>c</i> ]acridine	1 (0.454)
Benzal chloride	Benzene, dichloromethyl-	5000 (2270)
Benz[ <i>a</i> ]anthracene	Benzo[ <i>a</i> ]anthracene	1 (0.454)
1,2-Benzanthracene	1,2-Benzanthracene	
	Benzo[ <i>a</i> ]anthracene	1 (0.454)
	Benzo[ <i>a</i> ]anthracene	
	7,12-Dimethylbenzo[ <i>a</i> ]anthracene	1 (0.454)
1,2-Benzanthracene, 7,12-dimethyl-	Aniline *	5000 (2270)
Benzenamine	Auramine	1 (0.454)
Benzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl-	p-Chloroaniline	1000 (454)
Benzenamine, 4-chloro-	4-Chloro-o-toluidine, hydrochloride	1 (0.454)
Benzenamine, 4-chloro-2-methyl-, hydrochloride	Dimethylaminoazobenzene	1 (0.454)
Benzenamine, N,N-dimethyl-4-phenylazo-	4,4'-Methylenbis(2-chloroaniline)	1 (0.454)
Benzenamine, 4,4'-methylenbis(2-chloro-	o-Toluidine hydrochloride	1 (0.454)
Benzenamine, 2-methyl-, hydrochloride	5-Nitro-o-toluidine	1 (0.454)
Benzenamine, 2-methyl-5-nitro-	p-Nitroaniline	5000 (2270)
Benzenamine, 4-nitro-		1000 (454)
Benzene *	4-Bromophenyl phenyl ether	100 (45.4)
Benzene, 1-bromo-4-phenoxy-	Chlorobenzene *	100 (45.4)
Benzene, chloro-	Benzyl chloride *	100 (45.4)
Benzene, chloromethyl-	o-Dichlorobenzene *	100 (45.4)
Benzene, 1,2-dichloro-	1,2-Dichlorobenzene	
	m-Dichlorobenzene	100 (45.4)
	1,3-Dichlorobenzene	
	p-Dichlorobenzene *	100 (45.4)
	1,4-Dichlorobenzene	
Benzene, 1,3-dichloro-	Benzal chloride	5000 (2270)
	Toluene diisocyanate *	100 (45.4)
	Xylene * (mixed)	1000 (454)
	m	
	o	
	p	
Benzene, dichloromethyl-	Hexachlorobenzene	1 (0.454)
Benzene, 2,4-diisocyanatomethyl-	Cyclohexane *	1000 (454)
Benzene, dimethyl	Phenol *	1000 (454)
	Toluene *	1000 (454)
	2,4-Dinitrotoluene	1000 (454)
	2,6-Dinitrotoluene	1000 (454)
	Safrole	1 (0.454)
	Isosafrole	1 (0.454)
	Dihydrosafrole	1 (0.454)
	Cumene	5000 (2270)
	Nitrobenzene *	1000 (454)
	Pentachlorobenzene	10 (4.54)
	Pentachloronitrobenzene	1 (0.454)
	1,2,4,5-Tetrachlorobenzene	5000 (2270)
	Benzotrichloride	1 (0.454)
	sym-Trinitrobenzene *	10 (4.54)
	Ethyl 4,4'-dichlorobenzilate	1 (0.454)
	Phthalic anhydride	5000 (2270)
	Bis(2-ethylhexyl)phthalate	1 (0.454)
	Di-n-butyl phthalate	10 (4.54)
	Dibutyl phthalate	
	n-Butyl phthalate	1000 (454)
	Diethyl phthalate	5000 (2270)
	Dimethyl phthalate	5000 (2270)
	Di-n-octyl phthalate	5000 (2270)
	Resorcinol	5000 (2270)
	Epinephrine	1000 (454)
	Benzenesulfonyl chloride	100 (45.4)
	Benzenesulfonic acid chloride	100 (45.4)
	Phenyl mercaptan @	100 (45.4)
	Thiofenol	
	(1,1'-Biphenyl)-4,4'-diamine	1 (0.454)
	Saccharin and salts	1 (0.454)
	Benzo[ <i>a</i> ]anthracene	1 (0.454)
	1,2-Benzanthracene	
		1 (0.454)
		1 (0.454)
	Fluoranthene	100 (45.4)
Benzo[ <i>b</i> ]fluoranthene		1 (0.454)
Benzo[ <i>k</i> ]fluoranthene		1 (0.454)
Benzo[ <i>j,h</i> ]fluorene		100 (45.4)
Benzoic acid		5000 (2270)
Benzonitrile *		5000 (2270)
Benzo[ <i>g,h,i</i> ]perylene		5000 (2270)
Benzo[ <i>a</i> ]pyrene	3,4-Benzopyrene	1 (0.454)
3,4-Benzopyrene	Benzo[ <i>a</i> ]pyrene	1 (0.454)
p-Benzquinone	1,4-Cyclohexadienedione	10 (4.54)
Benzotrithionide	Benzene, trichloromethyl-	1 (0.454)
Benzoyl chloride *		1000 (454)
1,2-Benzphenanthrene	Chrysene	1 (0.454)

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds (Kilograms)
Benzyl chloride *	Benzene, chloromethyl-	100 (45.4)
Beryllium *	Beryllium dust *	1 (0.454)
Beryllium chloride *		5000 (2270)
Beryllium dust *	Beryllium *	1 (0.454)
Beryllium fluoride *		5000 (2270)
Beryllium nitrate *		5000 (2270)
alpha - BHC		1 (0.454)
beta - BHC		1 (0.454)
delta - BHC		1 (0.454)
gamma - BHC	Hexachlorocyclohexane (gamma isomer)	1 (0.454)
2,2'-Bioxirane	Lindane *	
(1,1'-Biphenyl)-4,4'-diamine	1,2,3,4-Diepoxybutane	1 (0.454)
(1,1'-Biphenyl)-4,4'-diamine,3,3'-dichloro-	Benzidine *	1 (0.454)
(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethoxy-	3,3'-Dichlorobenzidine	1 (0.454)
(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethyl-	3,3'-Dimethoxybenzidine	1 (0.454)
Bis(2-chloroethoxy) methane	3,3'-Dimethylbenzidine	1 (0.454)
Bis(2-chloroethyl) ether	Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro-	1000 (454)
Bis(2-chloroisopropyl) ether	Dichloroethyl ether	1 (0.454)
Bis(chloromethyl) ether	Ethane, 1,1'-oxybis(2-chloro-	
Bis(dimethylthiocarbonyl) disulfide	Propane, 2,2'-oxybis(2-chloro-	1000 (454)
Bis(2-ethylhexyl)phthalate	Methane, oxybis(chloro-	1 (0.454)
Bromine cyanide	Thiram	10 (4.54)
Bromoacetone *	1,2-Benzenedicarboxylic acid, [bis(2-ethylhexyl)]ester	1 (0.454)
Bromoform	Cyanogen bromide *	1000 (454)
4-Bromophenyl phenyl ether	2-Propanone, 1-bromo-	1000 (454)
Brucine	Methane, tribromo-	100 (45.4)
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	Benzene, 1-bromo-4-phenoxy-	100 (45.4)
1-Butanamine, N-butyl-N-nitroso-	Strychnidin-10-one, 2,3-dimethoxy-	100 (45.4)
Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene-	Hexachlorobutadiene *	1 (0.454)
1-Butanol	N-Nitrosodi-n-butylamine	1 (0.454)
2-Butanone	Chlorambucil	1 (0.454)
2-Butanone peroxide	n-Butyl alcohol *	5000 (2270)
2-Butenal	Ethyl methyl ketone @	5000 (2270)
2-Butene, 1,4-dichloro-	Methyl ethyl ketone *	
Butyl acetate *	Methyl ethyl ketone peroxide *	10 (4.54)
iso-Butyl acetate	Crotonaldehyde *	100 (45.4)
sec-Butyl acetate	1,4-Dichloro-2-butene	1 (0.454)
tert-Butyl acetate		5000 (2270)
n-Butyl alcohol *	1-Butanol	5000 (2270)
Butylamine *		1000 (454)
iso-Butylamine		
sec-Butylamine		
tert-Butylamine		
Butyl benzyl phthalate		100 (45.4)
n-Butyl phthalate	Di-n-butyl phthalate	10 (4.54)
	Dibutyl phthalate	
	1,2-Benzenedicarboxylic acid, dibutyl ester	
Butyric acid *		5000 (2270)
iso-Butyric acid		
Cacodylic acid	Hydroxydimethylarsine oxide	1 (0.454)
Cadmium *		1 (0.454)
Cadmium acetate		100 (45.4)
Cadmium bromide		100 (45.4)
Cadmium chloride		100 (45.4)
Calcium arsenate *		1000 (454)
Calcium arsenite *		1000 (454)
Calcium carbide *		10 (4.54)
Calcium chromate	Chromic acid, calcium salt	1000 (454)
Calcium cyanide *		10 (4.54)
Calcium dodecylbenzene sulfonate		1000 (454)
Calcium hypochlorite *		10 (4.54)
Camphene, octachloro-	Toxaphene *	1 (0.454)
Capitan		10 (4.54)
Carbamic acid, ethyl ester	Ethyl carbamate (Urethan)	1 (0.454)
Carbamic acid, methylnitroso-, ethyl ester	N-Nitroso-N-methylurethane	1 (0.454)
Carbamide, N-ethyl-N-nitroso-	N-Nitroso-N-ethylurea	1 (0.454)
Carbamide, N-methyl-N-nitroso-	N-Nitroso-N-methylurea	1 (0.454)
Carbamide, thio-	Thiourea	1 (0.454)
Carbamidoseleonic acid	Selenourea	1000 (454)
Carbamoyl chloride, dimethyl-	Dimethylcarbamoyl chloride	1 (0.454)
Carbaryl *		100 (45.4)
Carbofuran *		10 (4.54)
Carbon bisulfide *	Carbon disulfide *	100 (45.4)
Carbon disulfide *	Carbon bisulfide *	100 (45.4)
Carbonic acid, dithallium (I) salt	Thallium(I) carbonate	100 (45.4)
Carbonochloridic acid, methyl ester	Methyl chlorocarbonate *	1000 (454)
	Methyl chloroformate @	
Carbon oxyfluoride	Carbonyl fluoride	1000 (454)
Carbon tetrachloride *	Methane, tetrachloro-	5000 (2270)
Carbonyl chloride	Phosgene *	10 (4.54)
Carbonyl fluoride	Carbon oxyfluoride	1000 (454)
Chloral	Acetaldehyde, trichloro-	1 (0.454)
Chlorambucil	Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene-	1 (0.454)
Chlordane *	Chlordane, technical *	1 (0.454)
	4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-	
Chlordane, technical *	Chlordane *	1 (0.454)
	4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-	

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Chlorine *		10 (4.54)
Chlorine cyanide	Cyanogen chloride *	10 (4.54)
Chloranaphazine	2-Naphthylamine, N,N-bis(2-chloroethyl)-	1 (0.454)
Chloroacetaldehyde	Acetaldehyde, chloro	1000 (454)
p-Chloroaniline	Benzenamine, 4-chloro	1000 (454)
Chlorobenzene *	Benzene, chloro	100 (45.4)
4-Chloro-m-cresol	p-Chloro-m-cresol	5000 (2270)
p-Chloro-m-cresol	Phenol, 4-chloro-3-methyl- Phenol, 4-chloro-3-methyl- 4-Chloro-m-cresol	5000 (2270)
Chlorodibromomethane		100 (45.4)
1-Chloro-2,3-epoxypropane	Epichlorohydrin * Oxirane, 2-(chloromethyl)- Ethyl chloride @	1000 (454)
Chloroethane		100 (45.4)
2-Chloroethyl vinyl ether	Ethene, 2-chloroethoxy	1000 (454)
Chloroform *	Methane, trichloro	5000 (2270)
Chloromethane	Methane, chloro Methyl chloride *	1 (0.454)
Chloromethyl methyl ether	Methane, chloromethoxy Methylchloromethyl ether @	1 (0.454)
beta-Chloronaphthalene	Naphthalene, 2-chloro	5000 (2270)
2-Chloronaphthalene	2-Chloronaphthalene beta-Chloronaphthalene	5000 (2270)
2-Chlorophenol	Naphthalene, 2-chloro- o-Chlorophenol	100 (45.4)
o-Chlorophenol	Phenol, 2-chloro Phenol, 2-chloro 2-Chlorophenol	100 (45.4)
4-Chlorophenyl phenyl ether		5000 (2270)
1-(o-Chlorophenyl)thiourea	Thiourea, (2-chlorophenyl)-	100 (45.4)
3-Chloropropionitrile	Propanenitrile, 3-chloro	1000 (454)
Chlorosulfonic acid *		1000 (454)
4-Chloro-o-toluidine, hydrochloride	Benzenamine, 4-chloro-2-methyl-, hydrochloride	1 (0.454)
Chlorpyrifos *		1 (0.454)
Chromic acetate		1000 (454)
Chromic acid *		1000 (454)
Chromic acid, calcium salt	Calcium chromate	1000 (454)
Chromic sulfate		1000 (454)
Chromium ♯		1 (0.454)
Chromous chloride		1000 (454)
Chrysene	1,2-Benzphenanthrene	1 (0.454)
Cobaltous bromide		1000 (454)
Cobaltous formate		1000 (454)
Cobaltous sulfamate		1000 (454)
Coke Oven Emissions		1 (0.454)
Copper ♯		5000 (2270)
Copper cyanide *		10 (4.54)
Coumaphos *		10 (4.54)
Creosote		1 (0.454)
Cresols *	Creosylic acid	1000 (454)
m-Cresols	m-Cresylic acid	
o-Cresols	o-Cresylic acid	
p-Cresols	p-Cresylic acid	
Cresylic acid	Cresols *	1000 (454)
m-Cresols	m-Cresylic acid	
o-Cresols	o-Cresylic acid	
p-Cresols	p-Cresylic acid	
Crotonaldehyde *	2-Butenal	100 (45.4)
Cumene	Benzene, 1-methylethyl-	5000 (2270)
Cupric acetate		100 (45.4)
Cupric acetoarsenite *		100 (45.4)
Cupric chloride *		10 (4.54)
Cupric nitrate *		100 (45.4)
Cupric oxalate		100 (45.4)
Cupric sulfate		10 (4.54)
Cupric sulfate ammoniated		100 (45.4)
Cupric tartrate		100 (45.4)
Cyanides (soluble cyanide salts), not elsewhere specified *		10 (4.54)
Cyanogen *		100 (45.4)
Cyanogen bromide *	Bromine cyanide	1000 (454)
Cyanogen chloride *	Chlorine cyanide	10 (4.54)
1,4-Cyclohexadienedione	p-Benzoquinone	10 (4.54)
Cyclohexane *	Benzene, hexahydro-	1000 (454)
Cyclohexanone		5000 (2270)
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro	Hexachlorocyclopentadiene *	1 (0.454)
Cyclophosphamide	2H-1,3,2-Oxazaphosphorine,2-[bis(2-chloroethyl)amino] tetrahydro-2-oxide	1 (0.454)
2,4-D Acid	2,4-D *, salts and esters 2,4-Dichlorophenoxyacetic acid *, salts and esters	100 (45.4)
2,4-D Esters		100 (45.4)
2,4-D *, salts and esters	2,4-D Acid 2,4-Dichlorophenoxyacetic acid *, salts and esters	100 (45.4)
Daunomycin	5,12-Naphthacenedione, (6S-cis)-8-acetyl-10-[3-amino-2,3,6-trideoxy-alpha-L-xyrohexopyranosyl]oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-	1 (0.454)
DDD	Dichlorodiphenyl dichloroethane	1(0.454)
4,4'-DDD	TDE * 4,4'-DDD	1(0.454)
DDE	DDD Dichlorodiphenyl dichloroethane TDE * 4,4'-DDE	1 (0.454)



LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(kilograms)
4,4'-DDE	DDE	1 (0.454)
DDT *	Dichlorodiphenyl trichloroethane *	1 (0.454)
4,4'-DDT	4,4'-DDT	1 (0.454)
Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one	Dichlorodiphenyl trichloroethane *	1 (0.454)
Diallate	Kapone *	1 (0.454)
Diamine	S-(2,3-Dichloroallyl) diisopropylthiocarbamate	1 (0.454)
Diaminotoluene	Hydrazine *	1 (0.454)
Diazinon *	Toluenediamine *	1 (0.454)
Dibenz[a,h]anthracene	Dibenzo[a,h]anthracene	1 (0.454)
1,2,5,6-Dibenzanthracene	1,2,5,6-Dibenzanthracene	1 (0.454)
Dibenzo[a,h]anthracene	Dibenz[a,h]anthracene	1 (0.454)
1,2,7,8-Dibenzopyrene	Dibenz[a,i]pyrene	1 (0.454)
Dibenz[a,i]pyrene	1,2,7,8-Dibenzopyrene	1 (0.454)
1,2-Dibromo-3-chloropropane	Propane, 1,2-dibromo-3-chloro-	10 (4.54)
Dibutyl phthalate	Di-n-butyl phthalate	10 (4.54)
Di-n-butyl phthalate	n-Butyl phthalate *	10 (4.54)
	1,2-Benzenedicarboxylic acid, dibutyl ester	
	Dibutyl phthalate	
	n-Butyl phthalate *	
	1,2-Benzenedicarboxylic acid, dibutyl ester	
Dicamba		1000 (454)
Dichlobenil		100 (45.4)
Dichlone		1 (0.454)
S-(2,3-Dichloroallyl) diisopropylthiocarbamate		1 (0.454)
3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide		5000 (2270)
Dichlorobenzene (mixed)		100 (45.4)
1,2-Dichlorobenzene	Benzene, 1,2-dichloro-	100 (45.4)
1,3-Dichlorobenzene	o-Dichlorobenzene *	100 (45.4@)
1,4-Dichlorobenzene	Benzene, 1,3-dichloro-	100 (45.4)
m-Dichlorobenzene	m-Dichlorobenzene	100 (45.4)
o-Dichlorobenzene *	Benzene, 1,4-dichloro-	100 (45.4)
p-Dichlorobenzene *	p-Dichlorobenzene *	100 (45.4)
3,3'-Dichlorobenzidine	Benzene, 1,3-dichloro-	100 (45.4)
Dichlorobromomethane	1,3-Dichlorobenzene	100 (45.4)
1,4-Dichloro-2-butene	Benzene, 1,2-dichloro-	100 (45.4)
Dichlorodifluoromethane *	1,2-Dichlorobenzene	100 (45.4)
Dichlorodiphenyl dichloroethane	1,4-Dichlorobenzene	100 (45.4)
Dichlorodiphenyl trichloroethane *	(1,1'-Biphenyl)-4,4'-diamine,3,3'-dichloro-	1 (0.454)
1,1-Dichloroethane	2-Butene, 1,4-dichloro-	5000 (2270)
1,2-Dichloroethane	Methane, dichlorodifluoro-	1 (0.454)
1,1-Dichloroethylene	DDD	5000 (2270)
1,2-trans-Dichloroethylene	TDE *	1 (0.454)
Dichloroethyl ether	4,4'-DDD	1 (0.454)
2,4-Dichlorophenol	DDT *	
2,6-Dichlorophenol	4,4'-DDT	
2,4-Dichlorophenoxyacetic acid *, salts and esters	Ethane, 1,1-dichloro-	1000 (454)
Dichlorophenylarsine	Ethylene dichloride	5000 (2270)
Dichloropropane *	Ethane, 1,2-dichloro-	5000 (2270)
1,1-Dichloropropane	Ethylene dichloride *	1000 (454)
1,3-Dichloropropane	Ethane, 1,1-dichloro-	1000 (454)
1,2-Dichloropropane	Vinylidene chloride *	1 (0.454)
Dichloropropene - Dichloropropene (mixture)	Ethene, trans-1,2-dichloro-	100 (45.4)
Dichloropropene(s) *	Bis (2-chloroethyl) ether	1 (0.454)
2,3-Dichloropropene (isomer)	Ethane, 1,1'-oxybis(2-chloro-	100 (45.4)
1,3-Dichloropropene	Phenol, 2,4-dichloro-	100 (45.4)
2,2-Dichloropropionic acid *	Phenol, 2,6-dichloro-	100 (45.4)
Dichlorvos *	2,4-D Acid	100 (45.4)
Dieldrin *	2,4-D *, salts and esters	1 (0.454)
1,2,3,4-Diepoxybutane	Phenyl dichloroarsine *	1000 (454)
Diethylamine *	Propylene dichloride *	1000 (454)
Diethylarsine		100 (45.4)
1,4-Diethylene dioxide		100 (45.4)
O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate		1 (0.454)
N,N'-Diethylhydrazine		1 (0.454)
O,O-Diethyl S-methyl dithiophosphate		1 (0.454)
Diethyl-p-nitrophenyl phosphate		1 (0.454)
Diethyl phthalate		5000 (2270)
O,O-Diethyl O-pyrazinyl phosphorothioate		100 (45.4)
Diethylstilbestrol		1000 (454)
1,2-Dihydro-3,6-pyridazinedione		100 (45.4)
		1 (0.454)
		5000 (2270)

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds (Kilograms)
Dihydroxatrole	Benzene, 1,2-methylenedioxy-4-propyl	1 (0.454)
Diisopropyl fluorophosphate	Phosphorofluoric acid, bis(1-methylethyl) ester	100 (45.4)
Dimethoate	Phosphorodithioic acid, O,O-dimethyl S-[2(methylamino)-2-oxoethyl] ester	10 (4.54)
3,3'-Dimethoxybenzidine	(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethoxy	1 (0.454)
Dimethylamine *	Methanamine, N-methyl	1000 (454)
Dimethylaminoozobenzene	Benzenamine, N,N-dimethyl-4-phenylazo	1 (0.454)
7,12-Dimethylbenz[a]anthracene	1,2-Benzanthracene, 7,12-dimethyl	1 (0.454)
3,3'-Dimethylbenzidine	(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethyl	1 (0.454)
alpha, alpha-Dimethylbenzylhydroperoxide	Hydroperoxide, 1-methyl-1-phenylethyl	10 (4.54)
3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino)carbonyl] oxime	Thiofanox	100 (45.4)
Dimethylcarbamoyl chloride	Carbamoyl chloride, dimethyl	1 (0.454)
Dimethylhydrazine, unsymmetrical @	1,1-Dimethylhydrazine	1 (0.454)
1,1-Dimethylhydrazine	Hydrazine, 1,1-dimethyl	1 (0.454)
1,2-Dimethylhydrazine	Dimethylhydrazine, unsymmetrical @	1 (0.454)
O,O-Dimethyl O-p-nitrophenyl phosphorothioate	Hydrazine, 1,1-dimethyl	1 (0.454)
Dimethylnitrosamine	Hydrazine, 1,2-dimethyl	1 (0.454)
alpha, alpha-Dimethylphenethylamine	Methyl parathion *	100 (45.4)
2,4-Dimethylphenol	N-Nitrosodimethylamine	1 (0.454)
Dimethyl phthalate	Ethanamine, 1,1-dimethyl-2-phenyl	5000 (2270)
Dimethyl sulfate *	Phenol, 2,4-dimethyl	100 (45.4)
Dinitrobenzene * (mixed)	1,2-Benzenedicarboxylic acid, dimethyl ester	5000 (2270)
m-Dinitrobenzene	Sulfuric acid, dimethyl ester	1 (0.454)
o-Dinitrobenzene		100 (45.4)
p-Dinitrobenzene		100 (45.4)
4,6-Dinitro-o-cresol and salts	Phenol, 2,4-dinitro-6-methyl, and salts	10 (4.54)
4,6-Dinitro-o-cyclohexylphenol	Phenol, 2-cyclohexyl-4,6-dinitro	100 (45.4)
Dinitrophenol		10 (4.54)
2,5-Dinitrophenol		
2,6-Dinitrophenol		
2,4-Dinitrophenol	Phenol, 2,4-dinitro	10 (4.54)
Dinitrotoluene		1000 (454)
3,4-Dinitrotoluene		
2,4-Dinitrotoluene	Benzene, 1-methyl-2,4-dinitro	1000 (454)
2,6-Dinitrotoluene	Benzene, 1-methyl-2,6-dinitro	1000 (454)
Dinoseb	Phenol, 2,4-dinitro-6-(1-methylpropyl)	1000 (454)
Di-n-octyl phthalate	1,2-Benzenedicarboxylic acid, di-n-octyl ester	5000 (2270)
1,4-Dioxane	1,4-Diethylene dioxide	1 (0.454)
1,2-Diphenylhydrazine	Hydrazine, 1,2-diphenyl	1 (0.454)
Diphosphoramidate, octamethyl	Octamethylpyrophosphoramidate	100(45.4)
Dipropylamine	1-Propanamine, N-propyl	5000 (2270)
Di-n-propylnitrosamine	N-Nitrosod-n-propylamine	1 (0.454)
Diquat		1000 (454)
Disulfoton *	O,O-Diethyl S-[2-(ethylthio)ethyl]phosphorodithioate	1 (0.454)
2,4-Dithioburet	Thioimidodicarbonic diamide	100 (45.4)
Dithiopyrophosphoric acid, tetraethyl ester	Tetraethylthiopyrophosphate	100 (45.4)
Diuron		100 (45.4)
Dodecylbenzenesulfonic acid *	5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro,cyclic sulfite	1000 (454)
Endosulfan *		1 (0.454)
alpha - Endosulfan		1 (0.454)
beta - Endosulfan		1 (0.454)
Endosulfan sulfate		1 (0.454)
Endothal	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	1000 (454)
Endrin *	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8e-octahydro-endo-endo-1,4,5,8-dimethanonaphthalene	1 (0.454)
Endrin aldehyde		1 (0.454)
Epichlorohydrin *	1-Chloro-2,3-epoxypropane	1000 (454)
Ephedrine	Oxirans, 2-(chloromethyl)-	
Ethanal	1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl]	1000 (454)
Ethanamine, 1,1-dimethyl-2-phenyl	Acetaldehyde *	1000 (454)
Ethanamine, N-ethyl-N-nitroso	alpha, alpha-Dimethylphenethylamine	5000 (2270)
Ethane, 1,2-dibromo	N-Nitrosodietylamine	1 (0.454)
Ethane, 1,1-dichloro	Ethylene dibromide *	1000 (454)
	Ethylidene dichloride	1000 (454)
	1,1-Dichloroethane	
	Ethylene dichloride *	
	1,2-Dichloroethane	5000 (2270)
	Hexachloroethane *	
	Bis(2-chloroethoxy)methane	1 (0.454)
	Ethyl ether *	100 (45.4)
	Bis (2-chloroethyl) ether	1 (0.454)
	Dichloroethyl ether	
	Pentachloroethane	1 (0.454)
	1,1,1,2-Tetrachloroethane	1 (0.454)
	1,1,2,2-Tetrachloroethane	1 (0.454)
	1,1,2-Trichloroethane	1 (0.454)
	Methoxychlor	1 (0.454)
	Ethylenebis(dithiocarbamic acid)	5000 (2270)
	Acetonitrile *	5000 (2270)
	Thioacetamide	1 (0.454)
	N-Nitrosodietanolamine	1 (0.454)
	Acetophenone	5000 (2270)
	Acetyl chloride *	5000 (2270)
	N-Nitrosomethylvinylamine	1 (0.454)
	Vinyl chloride *	1 (0.454)
	2-Chloroethyl vinyl ether	1000 (454)
	Vinylidene chloride *	5000 (2270)
	1,1-Dichloroethylene	



LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds (Kilograms)
Ethene, 1,1,2,2-tetrachloro	Perchloroethylene Tetrachloroethene Tetrachloroethylene	1 (0.454)
Ethene, trans-1,2-dichloro	1,2-trans-Dichloroethylene	1000 (454)
Ethion *		10 (4.54)
2-Ethoxyethanol	Ethylene glycol monoethyl ether *	1 (0.454)
Ethyl acetate	Acetic acid, ethyl ester	5000 (2270)
Ethyl acrylate *	2-Propenoic acid, ethyl ester	1000 (454)
Ethylbenzene *		1000 (454)
Ethyl carbamate (Urethan)	Carbamic acid, ethyl ester	1 (0.454)
Ethyl chloride @	Chloroethane	100 (45.4)
Ethyl cyanide	Propanenitrile	10 (4.54)
Ethyl 4,4'-dichlorobenzilate	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	1 (0.454)
Ethylene dibromide *	Ethane, 1,2-dibromo	1000 (454)
Ethylene dichloride *	1,2-Dichloroethane Ethane, 1,2-dichloro	5000 (2270)
Ethylene glycol monoethyl ether *	2-Ethoxyethanol	1 (0.454)
Ethylene oxide *	Oxirane	1 (0.454)
Ethylenedis(dithiocarbamic acid)	1,2-Ethanediybiscarbamodithioic acid	5000 (2270)
Ethylenediamine *		5000 (2270)
Ethylenediamine tetraacetic acid (EDTA)		5000 (2270)
Ethylenethiourea	2-Imidazolidinethione	1 (0.454)
Ethylenimine	Azidine	1 (0.454)
Ethyl ether *	Ethane, 1,1'-oxybis-	100 (45.4)
Ethylene dichloride	Ethane, 1,1-dichloro 1,1-Dichloroethane	1000 (454)
Ethyl methacrylate	2-Propenoic acid, 2-methyl-, ethyl ester	1000 (454)
Ethyl methanesulfonate	Methanesulfonic acid, ethyl ester	1 (0.454)
Ethyl methyl ketone @	2-Butanone Methyl ethyl ketone *	5000 (2270)
Famphur	Phosphorothioic acid, O,O-dimethyl O-[p-[(dimethylamino)-sulfonyl] phenyl] ester	1000 (454)
Fenic ammonium citrate		1000 (454)
Fenic ammonium oxalate		1000 (454)
Ferric chloride		1000 (454)
Ferric dextran	Iron dextran	5000 (2270)
Ferric fluoride		100 (45.4)
Fenic nitrate *		1000 (454)
Ferric sulfate		1000 (454)
Ferrous ammonium sulfate		1000 (454)
Ferrous chloride *		100 (45.4)
Ferrous sulfate		1000 (454)
Fluoranthene	Benzofluorene	100 (45.4)
Fluorene		5000 (2270)
Fluorine *		10 (4.54)
Fluoroacetamide	Acetamide, 2-fluoro	100 (45.4)
Fluoroacetic acid, sodium salt	Acetic acid, fluoro-, sodium salt	10 (4.54)
Formaldehyde *	Methylene oxide	1000 (454)
Formic acid *	Methanoic acid	5000 (2270)
Fulminic acid, mercury(II)salt	Mercury fulminate	10 (4.54)
Fumaric acid		5000 (2270)
Furan *	Furfuran	100 (45.4)
Furan, tetrahydro	Tetrahydrofuran *	1000 (454)
2-Furancarboxaldehyde	Furfural *	5000 (2270)
2,5-Furandione	Maleic anhydride *	5000 (2270)
Furfural	2-Furancarboxaldehyde	5000 (2270)
Furfuran	Furan	100 (45.4)
D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-	Streptozotocin	1 (0.454)
Glycidylaldehyde	1-Propanal, 2,3-epoxy	1 (0.454)
Guanidine, N-nitroso-N-methyl-N'-nitro	N-Methyl-N'-nitro-N-nitrosoguanidine	1 (0.454)
Guthion *	Azinphos methyl @	1 (0.454)
Heptachlor	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	1 (0.454)
Heptachlor epoxide		1 (0.454)
Hexachlorobenzene	Benzene, hexachloro	1 (0.454)
Hexachlorobutadiene *	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	1 (0.454)
Hexachlorocyclohexane (gamma isomer)	gamma - BHC Lindane *	1 (0.454)
Hexachlorocyclopentadiene *	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	1 (0.454)
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene	Endrin *	1 (0.454)
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene	Dieldrin *	1 (0.454)
Hexachloroethane *	Ethane, 1,1,1,2,2,2-hexachloro	1 (0.454)
Hexachlorohexahydro-endo,endo-dimethanonaphthalene	1,2,3,4,10,10-Hexachloro-1,4,4a,5,6,7,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene	1 (0.454)
1,2,3,4,10,10-Hexachloro-1,4,4a,5,6,7,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene	Hexachlorohexahydro-endo,endo-dimethanonaphthalene	1 (0.454)
1,2,3,4,10,10-Hexachloro-1,4,4a,5,6,7,8,8a-hexahydro-1,4:5,8-endo,exo-dimethanonaphthalene	Aldrin *	1 (0.454)
Hexachlorophene	2,2'-Methylenebis(3,4,6-trichlorophenol)	100(45.4)
Hexachloropropene	1-Propene, 1,1,2,3,3,3-hexachloro-	1000 (454)
Hexaethyl tetraphosphate *	Tetraphosphoric acid, hexaethyl ester	100 (45.4)
Hydrazine *	Diamine	1 (0.454)
Hydrazine, 1,2-diethyl-	N,N'-Diethylhydrazine	1 (0.454)
Hydrazine, 1,1-dimethyl-	1,1-Dimethylhydrazine	1 (0.454)
Hydrazine, 1,2-dimethyl-	Dimethylhydrazine, unsymmetrical @	
Hydrazine, 1,2-diphenyl-	1,2-Dimethylhydrazine	1 (0.454)
Hydrazine, methyl-	1,2-Diphenylhydrazine	1 (0.454)
Hydrazinecarbothioamide	Methyl hydrazine *	100 (45.4)
Hydrochloric acid *	Thiosemicarbazide	5000 (2270)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Hydrocyanic acid	Hydrogen cyanide	10 (4.54)
Hydrofluoric acid	Hydrogen fluoride	100 (45.4)
Hydrogen cyanide	Hydrocyanic acid	10 (4.54)
Hydrogen fluoride	Hydrofluoric acid	100 (45.4)
Hydrogen phosphide	Phosphine	100 (45.4)
Hydrogen sulfide	Hydroosulfuric acid	100 (45.4)
Hydroperoxide, 1-methyl-1-phenylethyl	Sulfur hydride	
Hydroosulfuric acid	alpha, alpha-Dimethylbenzylhydroperoxide	10 (4.54)
	Hydrogen sulfide	100 (45.4)
	Sulfur hydride	
Hydroxydimethylarsine oxide	Cecodylic acid	1 (0.454)
2-Imidazolidinethione	Ethylenethiouras	1 (0.454)
Indeno(1,2,3-cd)pyrene	1,10-(1,2-Phenylene)pyrene	1 (0.454)
Iron dextran	Ferric dextran	5000 (2270)
Isobutyl alcohol	1-Propanol, 2-methyl	5000 (2270)
Isocyanic acid, methyl ester	Methyl isocyanate	1 (0.454)
Isophorone		5000 (2270)
Isoprene		100 (45.4)
Isopropanolamine dodecylbenzene sulfonate		1000 (454)
Isosafrole	Benzene, 1,2-methylenedioxy-4-propenyl	1 (0.454)
3(2H)-Isoxazolone, 5-(aminomethyl)-	5-(Aminomethyl)-3-isoxazolol	1000 (454)
Keithane		10 (4.54)
Kepone	Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one	1 (0.454)
Lasiocarpine		1 (0.454)
Lead		1 (0.454)
Lead acetate	Acetic acid, lead salt	5000 (2270)
Lead arsenate		5000 (2270)
Lead chloride		100 (45.4)
Lead fluoroborate		100 (45.4)
Lead fluoride		100 (45.4)
Lead iodide		100 (45.4)
Lead nitrate		100 (45.4)
Lead phosphate		1 (0.454)
Lead stearate	Phosphoric acid, lead salt	5000 (2270)
Lead subacetate		1 (0.454)
Lead sulfate		100 (45.4)
Lead sulfide		5000 (2270)
Lead thiocyanate		100 (45.4)
Lindane	gamma - BHC	1 (0.454)
	Hexachlorocyclohexane (gamma isomer)	
Lithium chromate		1000 (454)
Malathion		100 (45.4)
Maleic acid		5000 (2270)
Maleic anhydride	2,5-Furandione	5000 (2270)
Maleic hydrazide	1,2-Dihydro-3,6-pyridazinedione	5000 (2270)
Malononitrile	Propenedinitrile	1000 (454)
Melphalan	Alanine, 3-[p-bis(2-chloroethyl)amino]phenyl-, L-	1 (0.454)
Mercaptodimethur		10 (4.54)
Mercuric cyanide		1 (0.454)
Mercuric nitrate		10 (4.54)
Mercuric sulfate		10 (4.54)
Mercuric thiocyanate		10 (4.54)
Mercurous nitrate		10 (4.54)
Mercury		1 (0.454)
Mercury fulminate	Fulminic acid, mercury(II)salt	10 (4.54)
Mercury, (acetato-O)phenyl	Phenylmercuric acetate	100 (45.4)
Methacrylonitrile	2-Propenenitrile, 2-methyl	1000 (454)
Methanamine, N-methyl	Dimethylamine	1000 (454)
Methane, bromo	Methyl bromide	1000 (454)
Methane, chloro	Chloromethane	1 (0.454)
	Methyl chloride	
Methane, chloromethoxy	Chloromethyl methyl ether	1 (0.454)
	Methylchloromethyl ether @	
Methane, dibromo	Methylene bromide	1000 (454)
Methane, dichloro	Methylene chloride	1000 (454)
Methane, dichlorodifluoro	Dichlorodifluoromethane	5000 (2270)
Methane, iodo	Methyl iodide	1 (0.454)
Methane, oxybis(chloro	Bis(chloromethyl) ether	1 (0.454)
Methane, tetrachloro	Carbon tetrachloride	5000 (2270)
Methane, tetranitro	Tetranitromethane	10 (4.54)
Methane, tribromo	Bromozom	100 (45.4)
Methane, trichloro	Chloroform	5000 (2270)
Methane, trichlorofluoro	Trichloromonofluoromethane	5000 (2270)
Methanesulfenyl chloride, trichloro	Perchloromethyl mercaptan @	100 (45.4)
	Trichloromethanesulfenyl chloride	
Methanesulfonic acid, ethyl ester	Ethyl methanesulfonate	1 (0.454)
Methanethiol	Methyl mercaptan	100 (45.4)
	Thiomethanol	
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-6,4,7,7a-tetrahydro	Heptachlor	1 (0.454)
Methanoic acid	Formic acid	5000 (2270)
4,7-Methanoidan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro	Chlordane	1 (0.454)
	Chlordane, technical	
Methanol	Methyl alcohol	5000 (2270)
Methapyrene	Pyridine, 2-[(2-(dimethylamino)ethyl)-2-therylamino]-	5000 (2270)
Methomyl	Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester	100 (45.4)
Methoxychlor	Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-	1 (0.454)
Methyl alcohol	Methanol	5000 (2270)
Methylamine @	Monomethylamine	100 (45.4)
2-Methylaziridine	1,2-Propylenimine	1 (0.454)
Methyl bromide	Methane, bromo	1000 (454)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
1-Methylbutadiene	1,3-Pentadiene	100 (45.4)
Methyl chloride *	Chloromethane	1 (0.454)
Methyl chlorocarbonate *	Methane, chloro- Carbonochloridic acid, methyl ester Methyl chloroformate @	1000 (454)
Methyl chloroform *	1,1,1-Trichloroethane *	1000 (454)
Methyl chloroformate @	Carbonochloridic acid, methyl ester Methyl chlorocarbonate *	1000 (454)
Methylchloromethyl ether @	Chloromethyl methyl ether Methane, chloromethoxy-	1 (0.454)
3-Methylcholanthrene	Benz[ <i>l</i> ]acanthrylene, 1,2-dihydro-3-methyl-	1 (0.454)
4,4'-Methylenebis(2-chloroaniline)	Benzenamine, 4,4'-methylenebis(2-chloro-	1 (0.454)
2,2'-Methylenebis(3,4,6-trichlorophenol)	Hexachlorophene	100(45.4)
Methylene bromide	Methane, dibromo-	1000 (454)
Methylene chloride *	Methane, dichloro-	1000 (454)
Methylene oxide	Formaldehyde *	1000 (454)
Methyl ethyl ketone *	2-Butanone Ethyl methyl ketone @	5000 (2270)
Methyl ethyl ketone peroxide *	2-Butanone peroxide	10 (4.54)
Methyl hydrazine *	Hydrazine, methyl-	10 (4.54)
Methyl iodide	Methane, iodo-	1 (0.454)
Methyl isobutyl ketone	4-Methyl-2-pentanone	5000 (2270)
Methyl isocyanate *	Isocyanic acid, methyl ester	1 (0.454)
2-Methylacetonitrile	Acetone cyanohydrin * Propanenitrile, 2-hydroxy-2-methyl-	10 (4.54)
Methyl mercaptan *	Methanethiol Thiomethanol	100 (45.4)
Methyl methacrylate *	2-Propenoic acid, 2-methyl-, methyl ester	1000 (454)
N-Methyl-N'-nitro-N-nitrosoguanidine	Guanidine, N-nitroso-N-methyl-N'-nitro-	1 (0.454)
Methyl parathion *	O,O-Dimethyl O-p-nitrophenyl phosphorothioate	100 (45.4)
4-Methyl-2-pentanone	Methyl isobutyl ketone	5000 (2270)
Methylthiouracil	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxy-	1 (0.454)
Mevinphos *		10 (4.54)
Mexcarbata *		1000 (454)
Mitomycin C	Azirino[2',3'-3,4]pyrrolo[1,2-a]indole-4,7-dione,8-amino-6-[[[aminocarbonyloxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-	1 (0.454)
Monoethylamine *		100 (45.4)
Monomethylamine	Methylamine @	100 (45.4)
Naled		10 (4.54)
5,12-Naphthalenedione, (8S-cis)-8-acetyl-10-[3-amino-2,3,6-trideoxy-alpha-L-xylohexopyranosyl)oxy]-7,8,9,10-tetrahydro-8,8,11-trihydroxy-1-methoxy-	Daunomycin	1 (0.454)
Naphthalene *		100 (45.4)
Naphthalene, 2-chloro-	beta-Chloronaphthalene	5000 (2270)
1,4-Naphthalenedione	2-Chloronaphthalene	
2,7-Naphthalenedisulfonic acid, 3,3'-(3,3'-dimethyl-[1,1'-biphenyl]-4,4'-diyl)-bis(azo)bis(5-amino-4-hydroxy)-tetrasodium salt	1,4-Naphthoquinone	5000 (2270)
Naphthenic acid	Trypan blue	1 (0.454)
1,4-Naphthoquinone	1,4-Naphthalenedione	100 (45.4)
alpha-Naphthylamine	1-Naphthylamine	5000 (2270)
beta-Naphthylamine	2-Naphthylamine	1 (0.454)
1-Naphthylamine	alpha-Naphthylamine	1 (0.454)
2-Naphthylamine	beta-Naphthylamine	1 (0.454)
2-Naphthylamine, N,N-bis(2-chloroethyl)-	Chloromaphazine	1 (0.454)
alpha-Naphthylthiourea	Thiourea, 1-naphthalenyl-	100 (45.4)
Nickel †		1 (0.454)
Nickel ammonium sulfate		5000 (2270)
Nickel carbonyl *	Nickel tetracarbonyl	1 (0.454)
Nickel chloride		5000 (2270)
Nickel cyanide *	Nickel(II) cyanide	1 (0.454)
Nickel(II) cyanide	Nickel cyanide *	1 (0.454)
Nickel hydroxide		1000 (454)
Nickel nitrate *		5000 (2270)
Nickel sulfate		5000 (2270)
Nickel tetracarbonyl	Nickel carbonyl *	1 (0.454)
Nicotine * and salts *	Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts	100 (45.4)
Nitric acid *		1000 (454)
Nitric oxide *	Nitrogen(II) oxide	10 (4.54)
p-Nitroaniline *	Benzenamine, 4-nitro-	5000 (2270)
Nitrobenzene	Benzene, nitro-	1000 (454)
Nitrogen dioxide *	Nitrogen(IV) oxide	10 (4.54)
Nitrogen(II) oxide	Nitric oxide *	10 (4.54)
Nitrogen(IV) oxide	Nitrogen dioxide *	10 (4.54)
Nitroglycerine *	1,2,3-Propanetriol, trinitrate	10 (4.54)
Nitrophenol (mixed)		100 (45.4)
m-		
o-	2-Nitrophenol	
p-	4-Nitrophenol	
o-Nitrophenol	Phenol, 4-nitro-	100 (45.4)
p-Nitrophenol	2-Nitrophenol	100 (45.4)
2-Nitrophenol	Phenol, 4-nitro-	
4-Nitrophenol	4-Nitrophenol	100 (45.4)
2-Nitropropane	o-Nitrophenol	100 (45.4)
N-Nitrosodi-n-butylamine	p-Nitrophenol	100 (45.4)
N-Nitrosodiethanolamine	Phenol, 4-nitro-	
N-Nitrosodimethylamine	Propane, 2-nitro-	1 (0.454)
N-Nitrosodimethylamine	1-Butanamine, N-butyl-N-nitroso-	1 (0.454)
N-Nitrosodimethylamine	Ethanol, 2,2'-(nitrosomino)bis-	1 (0.454)
N-Nitrosodimethylamine	Ethanamine, N-ethyl-N-nitroso-	1 (0.454)
N-Nitrosodimethylamine	Dimethylnitrosamine	1 (0.454)

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds (kilograms)
N-Nitrosodiphenylamine		100 (45.4)
N-Nitrosod-n-propylamine	Di-n-propylnitrosamine	1 (0.454)
N-Nitroso-N-ethylurea	Carbamide, N-ethyl-N-nitroso	1 (0.454)
N-Nitroso-N-methylurea	Carbamide, N-methyl-N-nitroso	1 (0.454)
N-Nitroso-N-methylurethane	Carbamic acid, methylnitroso, ethyl ester	1 (0.454)
N-Nitrosomethylvinylamine	Ethenamine, N-methyl-N-nitroso	1 (0.454)
N-Nitrosopiperidine	Pyridine, hexahydro-N-nitroso	1 (0.454)
N-Nitrosopyrrolidine	Pyrrole, tetrahydro-N-nitroso	1 (0.454)
Nitrotoluene		1000 (454)
m-Nitrotoluene		
o-Nitrotoluene		
p-Nitrotoluene		
5-Nitro-o-toluidine	Benzenamine, 2-methyl-5-nitro	1 (0.454)
5-Norbornene-2,3-dimethanol,1,4,5,6,7,7-hexachloro,cyclic sulfite	Endosulfan *	1 (0.454)
Octamethylpyrophosphoramide	Diphosphoramide, octamethyl	100 (45.4)
Osmium oxide	Osmium tetroxide	1000 (454)
Osmium tetroxide	Osmium oxide	1000 (454)
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	Endothal	1000 (454)
1,2-Oxathiolane, 2,2-dioxide	1,3-Propane sultone	1 (0.454)
2H-1,3,2-Oxazaphosphorine,2-[bis(2-chloroethyl) amino] tetrahydro-2-oxide	Cyclophosphamide	1 (0.454)
Oxirane	Ethylene oxide *	1 (0.454)
Oxirane, 2-(chloromethyl)-	Epichlorohydrin *	1000 (454)
Paraformaldehyde *	1-Chloro-2,3-epoxypropane	1000 (454)
Paraldehyde *	1,3,5-Trioxane, 2,4,6-trimethyl-	1000 (454)
Parathion *	Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl)ester	1 (0.454)
Pentachlorobenzene	Benzene, pentachloro	10 (4.54)
Pentachloroethane	Ethane, pentachloro	1 (0.454)
Pentachloronitrobenzene	Benzene, pentachloronitro	1 (0.454)
Pentachlorophenol	Phenol, pentachloro	10 (4.54)
1,3-Pentadiene	1-Methylbutadiene	100 (45.4)
Perchloroethylene *	Ethene, 1,1,2,2-tetrachloro Tetrachloroethene	1 (0.454)
Perchloromethyl mercaptan @	Tetrachloroethylene *	100 (45.4)
Phenacetin	Methanesulfenyl chloride, trichloro	1 (0.454)
Phenanthrene	Trichloromethanesulfenyl chloride	5000 (2270)
Phenol *	Acetamide, N-(4-ethoxyphenyl)-	1000 (454)
Phenol, 2-chloro-	Benzene, hydroxy	100 (45.4)
Phenol, 4-chloro-3-methyl-	o-Chlorophenol 2-Chlorophenol	5000 (2270)
Phenol, 2-cyclohexyl-4,6-dinitro-	p-Chloro-m-cresol 4-Chloro-m-cresol	100 (45.4)
Phenol, 2,4-dichloro-	4,6-Dinitro-o-cyclohexylphenol	100 (45.4)
Phenol, 2,6-dichloro-	2,4-Dichlorophenol	100 (45.4)
Phenol, 2,4-dimethyl-	2,6-Dichlorophenol	100 (45.4)
Phenol, 2,4-dinitro-	2,4-Dimethylphenol	100 (45.4)
Phenol, 2,4-dinitro-6-(1-methylpropyl)-	2,4-Dinitrophenol	10 (4.54)
Phenol, 2,4-dinitro-6-methyl-, and salts	Dinoseb	1000 (454)
Phenol, 4-nitro-	4,6-Dinitro-o-cresol and salts	10 (4.54)
Phenol, pentachloro-	p-Nitrophenol *	100 (45.4)
Phenol, 2,3,4,6-tetrachloro-	4-Nitrophenol *	10 (4.54)
Phenol, 2,4,5-trichloro-	Pentachlorophenol	10 (4.54)
Phenol, 2,4,6-trichloro-	2,3,4,6-Tetrachlorophenol	10 (4.54)
Phenol, 2,4,6-trinitro-, ammonium salt	2,4,5-Trichlorophenol	10 (4.54)
Phenyl dichloroarsine *	2,4,6-Trichlorophenol	10 (4.54)
1,10-(1,2-Phenylene)pyrene	Ammonium picrate *	1 (0.454)
Phenyl mercaptan @	Dichlorophenylarsine	1 (0.454)
Phenylmercuric acetate	Indeno[1,2,3-cd]pyrene	1 (0.454)
N-Phenylthiourea	Benzenethiol	100 (45.4)
Phorate	Thiophenol *	100 (45.4)
Phosgene *	Mercury, (acetato-O)phenyl-	100 (45.4)
Phosphine *	Thiourea, phenyl-	100 (45.4)
Phosphoric acid *	Phosphorodithioic acid, O,O-diethyl S-(ethylthio), methyl ester	10 (4.54)
Phosphoric acid, diethyl p-nitrophenyl ester	Carbonyl chloride	10 (4.54)
Phosphoric acid, lead salt	Hydrogen phosphide	100 (45.4)
Phosphorodithioic acid, O,O-diethyl S-(ethylthio), methyl ester	Diethyl-p-nitrophenyl phosphate	5000 (2270)
Phosphorodithioic acid, O,O-diethyl S-methyl ester	Lead phosphate	1 (0.454)
Phosphorodithioic acid, O,O-dimethyl S-[2 (methylamino)-2-oxoethyl] ester	Phorate	10 (4.54)
Phosphorofluoridic acid, bis(1-methylthio) ester	O,O-Diethyl S-methyl dithiophosphate	5000 (2270)
Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester	Dimethoate	10 (4.54)
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	Diisopropyl fluorophosphate	100 (45.4)
Phosphorothioic acid, O,O-dimethyl O-[p-[(dimethylamino)-sulfonyl] phenyl] ester	Parathion *	1 (0.454)
Phosphorus *	O,O-Diethyl O-pyrazinyl phosphorothioate	100 (45.4)
Phosphorus oxychloride *	Famphur	1000 (454)
Phosphorus pentasulfide *	Phosphorus sulfide	1 (0.454)
Phosphorus sulfide	Sulfur phosphide	100 (45.4)
Phosphorus trichloride *	Phosphorus pentasulfide *	100 (45.4)
Phthalic anhydride	Sulfur phosphide	1000 (454)
2-Picoline	1,2-Benzenedicarboxylic acid anhydride	5000 (2270)
Plumbane, tetraethyl-	Pyridine, 2-methyl-	5000 (2270)
	Tetraethyl lead *	10 (4.54)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
POLYCHLORINATED BIPHENYLS (PCBs)	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1280	10 (4.54)
Potassium arsenate *		1000 (454)
Potassium arsenite *		1000 (454)
Potassium bichromate	Potassium dichromate @	1000 (454)
Potassium chromate		1000 (454)
Potassium cyanide *		10 (4.54)
Potassium dichromate @	Potassium bichromate	1000 (454)
Potassium hydroxide *		1000 (454)
Potassium permanganate *		100 (45.4)
Potassium silver cyanide		1 (0.454)
Pronamide	3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide	5000 (2270)
1-Propanal, 2,3-epoxy	Glycidylaldehyde	1 (0.454)
Propanal, 2-methyl-2-(methylthio)-O-[(methylamino)carbonyl]oxime	Aldicarb	1 (0.454)
1-Propanamine	n-Propylamine *	5000 (2270)
1-Propanamine, N-propyl-	Dipropylamine	5000 (2270)
Propane, 1,2-dibromo-3-chloro	1,2-Dibromo-3-chloropropane	10 (4.54)
Propane, 2-nitro-	2-Nitropropane	1 (0.454)
Propane, 2,2'-oxybis(2-chloro-	Bis(2-chloroisopropyl) ether	1000 (454)
1,3-Propane sulfone	1,2-Oxathiolane, 2,2-dioxide	1 (0.454)
Propanedinitrile	Malononitrile	1000 (454)
Propanenitrile	Ethyl cyanide	10 (4.54)
Propanenitrile, 3-chloro-	3-Chloropropionitrile	1000 (454)
Propanenitrile, 2-hydroxy-2-methyl-	Acetone cyanohydrin *	10 (4.54)
	2-Methylactonitrile	
1,2,3-Propanetriol, trinitrate	Nitroglycerine *	10 (4.54)
1-Propanol, 2,3-dibromo-, phosphate (3:1)	Tris(2,3-dibromopropyl)phosphate	1 (0.454)
1-Propanol, 2-methyl-	Isobutyl alcohol	5000 (2270)
2-Propanone	Acetone *	5000 (2270)
2-Propanone, 1-bromo-	Bromoacetone *	1000 (454)
Propargite		10 (4.54)
Propargyl alcohol *	2-Propyn-1-ol	1000 (454)
2-Propanal	Acrolein *	1 (0.454)
2-Propanamide	Acrylamide	5000 (2270)
Propene, 1,3-dichloro-	1,3-Dichloropropene	100 (45.4)
1-Propene, 1,1,2,3,3,3-hexachloro-	Hexachloropropene	1000 (454)
2-Propanenitrile	Acrylonitrile *	100 (45.4)
2-Propanenitrile, 2-methyl-	Methacrylonitrile	1000 (454)
2-Propanoic acid	Acrylic acid *	5000 (2270)
2-Propanoic acid, ethyl ester	Ethyl acrylate *	1000 (454)
2-Propanoic acid, 2-methyl-, ethyl ester	Ethyl methacrylate	1000 (454)
2-Propanoic acid, 2-methyl-, methyl ester	Methyl methacrylate *	1000 (454)
2-Propan-1-ol	Allyl alcohol *	100 (45.4)
Propionic acid *		5000 (2270)
Propionic acid, 2-(2,4,5-trichlorophenoxy)-	Silvex	100 (45.4)
	2,4,5-TP @	
	2,4,5-TP acid	
Propionic anhydride		5000 (2270)
n-Propylamine *	1-Propanamine	5000 (2270)
Propylene dichloride *	1,2-Dichloropropane	1000 (454)
Propylene oxide *		100 (45.4)
1,2-Propylenimine *	2-Methylaziridine	1 (0.454)
2-Propyn-1-ol	Propargyl alcohol *	1000 (454)
Pyrene		5000 (2270)
Pyrethrins		1 (0.454)
4-Pyridinamine	4-Aminopyridine	1000 (454)
Pyridine *		1000 (454)
Pyridine, 2-[(2-(dimethylamino)ethyl)-2-phenylamino]-	Methapyrilene	5000 (2270)
Pyridine, hexahydro-N-nitroso-	N-Nitrosopiperidine	1 (0.454)
Pyridine, 2-methyl-	2-Picoline	5000 (2270)
Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts	Nicotine * and salts *	100 (45.4)
4(1H)-Pyrimidinone, 2,3-dihydro-9-methyl-2-thioxo-	Methylthiouacil	1 (0.454)
Pyrophosphoric acid, tetraethyl ester	Tetraethyl pyrophosphate *	10 (4.54)
Pyrrole, tetrahydro-N-nitroso-	N-Nitrosopyrrolidine	1 (0.454)
Quinoline		5000 (2270)
RADIONUCLIDES		1 (0.454)
Reserpine	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-methyl ester	5000 (2270)
Resorcinol	1,3-Benzenediol	5000 (2270)
Saccharin and salts	1,2-Benzisothiazolin-3-one, 1,1-dioxide, and salts	1 (0.454)
Safrole	Benzene, 1,2-methylenedioxy-4-allyl-	1 (0.454)
Selenious acid		10 (4.54)
Selenium *		100 (45.4)
Selenium dioxide	Selenium oxide *	10 (4.54)
Selenium disulfide	Sulfur selenide	1 (0.454)
Selenium oxide *	Selenium dioxide	10 (4.54)
Selenourea	Carbamimidoseleonic acid	1000 (454)
L-Serine, diazoacetate (ester)	Azaserine	1 (0.454)
Silver *		1000 (454)
Silver cyanide *		1 (0.454)
Silver nitrate *		1 (0.454)
Silvex	Propionic acid, 2-(2,4,5-trichlorophenoxy)-	100 (45.4)
	2,4,5-TP @	
	2,4,5-TP acid	
Sodium *		10 (4.54)

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds (Kilograms)
Sodium arsenate *		1000 (454)
Sodium arsenite		1000 (454)
Sodium azide *		1000 (454)
Sodium bichromate	Sodium dichromate @	1000 (454)
Sodium bifluoride *		100 (45.4)
Sodium bisulfite *		5000 (2270)
Sodium chromate		1000 (454)
Sodium cyanide *		10 (4.54)
Sodium dichromate @	Sodium bichromate	1000 (454)
Sodium dodecylbenzene sulfonate		1000 (454)
Sodium fluoride *		1000 (454)
Sodium hydrosulfide *		5000 (2270)
Sodium hydroxide *		1000 (454)
Sodium hypochlorite *		100 (45.4)
Sodium methylate *		1000 (454)
Sodium nitrite *		100 (45.4)
Sodium phosphate, dibasic		5000 (2270)
Sodium phosphate, tribasic		5000 (2270)
Sodium selenite *		100 (45.4)
4,4'-Stilbenediol, alpha, alpha'-diethyl-	Diethylstilbestrol	1 (0.454)
Streptozotocin	D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-	1 (0.454)
Strontium chromate		1000 (454)
Strontium sulfide		100 (45.4)
Strychnidin-10-one, and salts	Strychnine * and salts *	10 (4.54)
Strychnidin-10-one, 2,3-dimethoxy-	Brucine	100 (45.4)
Strychnine * and salts *	Strychnidin-10-one, and salts	10 (4.54)
Styrene		1000 (454)
Sulfur hydride	Hydrogen sulfide *	100 (45.4)
Sulfur monochloride	Hydrosulfuric acid	
Sulfur phosphide	Phosphorus pentasulfide *	1000 (454)
	Phosphorus sulfide	100 (45.4)
Sulfur selenide	Selenium disulfide	1 (0.454)
Sulfuric acid		1000 (454)
Sulfuric acid, dimethyl ester	Dimethyl sulfate *	1 (0.454)
Sulfuric acid, thallium(I) salt	Thallium(I) sulfate *	100 (45.4)
2,4,5-T *	2,4,5-T acid	1000 (454)
	2,4,5-Trichlorophenoxyacetic acid *	
	2,4,5-T *	1000 (454)
	2,4,5-Trichlorophenoxyacetic acid *	
2,4,5-T acid		
2,4,5-T amines		5000 (2270)
2,4,5-T esters		1000 (454)
2,4,5-T salts		1000 (454)
TDE *	DDD	1(0.454)
	Dichlorodiphenyl dichloroethane	
1,2,4,5-Tetrachlorobenzene	4,4'-DDD	5000 (2270)
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	Benzene, 1,2,4,5-tetrachloro-	1 (0.454)
1,1,1,2-Tetrachloroethane	Ethane, 1,1,1,2-tetrachloro-	1 (0.454)
1,1,1,2,2-Tetrachloroethane	Ethane, 1,1,2,2-tetrachloro-	1 (0.454)
Tetrachloroethane	Ethane, 1,1,2,2-tetrachloro-	1 (0.454)
	Perchloroethylene *	
	Tetrachloroethylene *	
Tetrachloroethylene *	Ethane, 1,1,2,2-tetrachloro-	1 (0.454)
	Perchloroethylene *	
	Tetrachloroethane	
2,3,4,6-Tetrachlorophenol	Phenol, 2,3,4,6-tetrachloro-	10 (4.54)
Tetraethyl lead *	Plumbane, tetraethyl-	10 (4.54)
Tetraethyl pyrophosphate *	Pyrophosphoric acid, tetraethyl ester	10 (4.54)
Tetraethylthiopyrophosphate	Dithiopyrophosphoric acid, tetraethyl ester	100 (45.4)
Tetrahydrofuran	Furan, tetrahydro-	1000 (454)
Tetranitromethane *	Methane, tetranitro-	10 (4.54)
Tetraphosphoric acid, hexaethyl ester	Hexaethyl tetraphosphate *	100 (45.4)
Thallic oxide	Thallium(III) oxide	100 (45.4)
Thallium *		1000 (454)
Thallium(I) acetate	Acetic acid, thallium(I) salt	100 (45.4)
Thallium(I) carbonate	Carbonic acid, dithallium (I) salt	100(45.4)
Thallium(I) chloride		100 (45.4)
Thallium(I) nitrate		100 (45.4)
Thallium(III) oxide		100 (45.4)
Thallium(I) selenide		1000 (454)
Thallium(I) sulfate *	Sulfuric acid, thallium(I) salt	100 (45.4)
Thioacetamide	Ethanethioamide	1 (0.454)
Thioanox	3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino)carbonyl] oxime	100 (45.4)
Thioimidodicarbonic diamide	2,4-Dithiobiuret	100 (45.4)
Thomethanol	Methanethiol	100 (45.4)
Thiophenol *	Methyl mercaptan *	100 (45.4)
	Benzeneethiol	
Thiosemicarbazide	Phenyl mercaptan @	
Thiourea	Hydrazinecarbothioamide	100 (45.4)
Thiourea, (2-chlorophenyl)-	Carbamide, thio-	1 (0.454)
Thiourea, 1-naphthalenyl-	1-(o-Chlorophenyl)thiourea	100 (45.4)
Thiourea, phenyl-	alpha-Naphthylthiourea	100 (45.4)
Thiram	N-Phenylthiourea	100 (45.4)
Toluene *	Bis(dimethylthiocarbamoyl) disulfide	10 (4.54)
Toluenediamine *	Benzene, methyl-	1000 (454)
Toluene diisocyanate *	Diaminotoluene	1 (0.454)
o-Toluidine hydrochloride	Benzene, 2,4-diisocyanatomethyl-	100 (45.4)
o-Toluidine	Benzenamine, 2-methyl, hydrochloride	1 (0.454)
	2-Amino-1-methyl benzene	1 (0.454)



LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
p-Toluidine.....	4-Amino-1-methyl benzene.....	1 (0.454)
Toxaphene *.....	Camphene, octachloro.....	† (0.454)
2,4,5-TP @.....	Propionic acid, 2-(2,4,5-trichlorophenoxy)-.....	100 (45.4)
	Silvex.....	
	2,4,5-TP acid.....	
2,4,5-TP acid esters.....		100 (45.4)
2,4,5-TP acid.....	Propionic acid, 2-(2,4,5-trichlorophenoxy)-.....	100 (45.4)
	Silvex.....	
	2,4,5-TP @.....	
1H-1,2,4-Triazol-3-amine.....	Amitrole.....	1 (0.454)
Trichlorfon.....		100 (45.4)
1,2,4-Trichlorobenzene.....		100 (45.4)
1,1,1-Trichloroethane *.....	Methyl chloroform *.....	1000 (454)
1,1,2-Trichloroethane.....	Ethane, 1,1,2-trichloro.....	† (0.454)
Trichloroethane.....	Trichloroethylene *.....	1000 (454)
Trichloroethylene *.....	Trichloroethane.....	1000 (454)
Trichloromethanesulfonyl chloride.....	Methanesulfonyl chloride, trichloro.....	100 (45.4)
	Perchloromethyl mercaptan @.....	
	Methane, trichlorofluoro.....	5000 (2270)
Trichloromonofluoromethane.....		10 (4.54)
Trichlorophenol *.....		
2,3,4-Trichlorophenol.....		
2,3,5-Trichlorophenol.....		
2,3,6-Trichlorophenol.....		
2,4,5-Trichlorophenol.....	Phenol, 2,4,5-trichloro.....	
2,4,6-Trichlorophenol.....	Phenol, 2,4,6-trichloro.....	
3,4,5-Trichlorophenol.....		
2,4,5-Trichlorophenol.....	Phenol, 2,4,5-trichloro.....	10 (4.54)
2,4,6-Trichlorophenol.....	Phenol, 2,4,6-trichloro.....	10 (4.54)
2,4,5-Trichlorophenoxyacetic acid *.....	2,4,5-T *.....	1000 (454)
	2,4,5-T acid.....	
Triethanolamine dodecylbenzene sulfonate.....		1000 (454)
Triethylamine.....		5000 (2270)
Trimethylamine *.....		100 (45.4)
sym-Trinitrobenzene *.....	Benzene, 1,3,5-trinitro.....	10 (4.54)
1,3,5-Trioxane, 2,4,6-trimethyl.....	Paraldehyde.....	1000 (454)
Tris(2,3-dibromopropyl) phosphate.....	1-Propanol, 2,3-dibromo-, phosphate (3:1).....	1 (0.454)
Trypan blue.....	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(azo)]bis(5-amino-4-hydroxy)-tetrasodium salt.....	† (0.454)
Unlisted Hazardous Wastes Characteristic of Corrosivity D002.....		100(45.4)
Unlisted Hazardous Wastes Characteristic of EP Toxicity.....		
Arsenic D004.....		1 (0.454)
Barium D005.....		1000 (454)
Cadmium D006.....		1 (0.454)
Chromium D007.....		1 (0.454)
Lead D008.....		1 (0.454)
Mercury D009.....		1 (0.454)
Selenium D010.....		10 (4.54)
Silver D011.....		1 (0.454)
Endrin D012.....		† (0.454)
Lindane D013.....		† (0.454)
Methoxychlor D014.....		† (0.454)
Toxaphene D015.....		1 (0.454)
2,4-D D016.....		100 (45.4)
2,4,5-TP D017.....		100 (45.4)
Unlisted Hazardous Wastes Characteristic of Ignitability D001.....		100 (45.4)
Unlisted Hazardous Wastes Characteristic of Reactivity D003.....		100 (45.4)
Uracil, 5-[bis(2-chloroethyl)amino]-.....	Uracil mustard.....	1 (0.454)
Uracil mustard.....	Uracil, 5-[bis(2-chloroethyl)amino]-.....	1 (0.454)
Uranyl acetate *.....		100 (45.4)
Uranyl nitrate *.....		100 (45.4)
Vanadic acid, ammonium salt.....	Ammonium vanadate.....	1000 (454)
Vanadium(V) oxide.....	Vanadium pentoxide.....	1000 (454)
Vanadium pentoxide.....	Vanadium(V) oxide.....	1000 (454)
Vanadyl sulfate.....		1000 (454)
Vinyl acetate *.....		5000 (2270)
Vinyl chloride *.....	Ethene, chloro.....	1 (0.454)
Vinylidene chloride *.....	Ethene, 1,1-dichloro.....	5000 (2270)
Warfarin.....	1,1-Dichloroethylene.....	
Xylene * (mixed).....	3-(alpha-Acetoxybenzyl)-4-hydroxycoumarin and salts.....	100 (45.4)
m.....	Benzene, dimethyl.....	1000 (454)
o.....		
p.....		
Xylenol *.....		1000 (454)
Yohimban-18-carboxylic methyl ester.....	acid,11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyloxy)-], Reserpine.....	5000 (2270)
Zinc.....		1000 (454)
Zinc acetate.....		1000 (454)
Zinc ammonium chloride.....		1000 (454)
Zinc borate.....		1000 (454)
Zinc bromide.....		1000 (454)
Zinc carbonate.....		1000 (454)
Zinc chloride.....		1000 (454)
Zinc cyanide *.....		10 (4.54)
Zinc fluoride.....		1000 (454)
Zinc formate.....		1000 (454)
Zinc hydrosulfite *.....		1000 (454)
Zinc nitrate *.....		1000 (454)
Zinc phenolsulfonate.....		5000 (2270)
Zinc phosphide *.....		100 (45.4)

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds (Kilograms)
Zinc silicofluoride.....		5000 (2270)
Zinc sulfate.....		1000 (454)
Zirconium nitrate *.....		5000 (2270)
Zirconium potassium fluoride.....		1000 (454)
Zirconium sulfate *.....		5000 (2270)
Zirconium tetrachloride *.....		5000 (2270)
F001.....		1 (0.454)
The following spent halogenated solvents used in degreasing and sludges from the recovery of these solvents in degreasing operations:		
(a) Tetrachloroethylene.....		1 (0.454)
(b) Trichloroethylene.....		1000 (454)
(c) Methylene chloride.....		1000 (454)
(d) 1,1,1-Trichloroethane.....		1000 (454)
(e) Carbon tetrachloride.....		5000 (2270)
(f) Chlorinated fluorocarbons.....		5000 (2270)
F002.....		1 (0.454)
The following spent halogenated solvents and the still bottoms from the recovery of these solvents:		
(a) Tetrachloroethylene.....		1 (0.454)
(b) Methylene chloride.....		1000 (454)
(c) Trichloroethylene.....		1000 (454)
(d) 1,1,1-Trichloroethane.....		1000 (454)
(e) Chlorobenzene.....		100 (45.4)
(f) 1,1,2-Trichloro-1,2,2-trifluoroethane.....		5000 (2270)
(g) o-Dichlorobenzene.....		100 (45.4)
(h) Trichlorofluoromethane.....		5000 (2270)
F003.....		100 (45.4)
The following spent non-halogenated solvents and solvents:		
(a) Xylene.....		1000 (454)
(b) Acetone.....		5000 (2270)
(c) Ethyl acetate.....		5000 (2270)
(d) Ethylbenzene.....		1000 (454)
(e) Ethyl ether.....		100 (45.4)
(f) Methyl isobutyl ketone.....		5000 (2270)
(g) n-Butyl alcohol.....		5000 (2270)
(h) Cyclohexanone.....		5000 (2270)
(i) Methanol.....		1000 (454)
F004.....		1000 (454)
The following spent non-halogenated solvents and the stillbottoms from the recovery of these solvents:		
(a) Cresols/Cresylic acid.....		1000 (454)
(b) Nitrobenzene.....		1000 (454)
F005.....		100 (45.4)
The following spent non-halogenated solvents and the stillbottoms from the recovery of these solvents:		
(a) Toluene.....		1000 (454)
(b) Methyl ethyl ketone.....		5000 (2270)
(c) Carbon disulfide.....		100 (45.4)
(d) Isobutanol.....		5000 (2270)
(e) Pyridine.....		1000 (454)
F006.....		1 (0.454)
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.....		10 (4.54)
Spent cyanide plating bath solutions from electroplating operations.....		
F008.....		10 (4.54)
Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process (except for precious metals electroplating plating bath sludges).		
F009.....		10 (4.54)
Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process (except for precious metals electroplating spent stripping and cleaning bath solutions).		
F010.....		10 (4.54)
Quenching bath sludge from oil baths from metal heat treating operations where cyanides are used in the process (except for precious metals heat-treating quenching bath sludges).		
F011.....		10 (4.54)
Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations (except for precious metals heat treating spent cyanide solutions from salt bath pot cleaning).		
F012.....		10 (4.54)
Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process (except for precious metals heat treating quenching wastewater treatment sludges).		
F019.....		1 (0.454)
Wastewater treatment sludges from the chemical conversion coating of aluminum.....		
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.)		

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RC) Pounds (Kilograms)
F021 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.		1 (0.454)
F022 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.		1 (0.454)
F023 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.)		1 (0.454)
F024 Wastes, including but not limited to distillation residues, heavy ends, tars, and reactor cleanout wastes, from the production of chlorinated aliphatic hydrocarbons, having carbon content from one to five, utilizing free radical catalyzed processes. (This listing does not include light ends, spent filters and filter aids, spent desiccants (sic), wastewater, wastewater treatment sludges, spent catalysts, and wastes listed in 40 CFR 261.32).		1 (0.454)
F026 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.		1 (0.454)
F027 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).		1 (0.454)
F028 Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.		1 (0.454)
K001 Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.		1 (0.454)
K002 Wastewater treatment sludge from the production of chrome yellow and orange pigments.		1 (0.454)
K003 Wastewater treatment sludge from the production of molybdate orange pigments.		1 (0.454)
K004 Wastewater treatment sludge from the production of zinc yellow pigments.		1 (0.454)
K005 Wastewater treatment sludge from the production of chrome green pigments.		1 (0.454)
K006 Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).		1 (0.454)
K007 Wastewater treatment sludge from the production of iron blue pigments.		1 (0.454)
K008 Oven residue from the production of chrome oxide green pigments.		1 (0.454)
K009 Distillation bottoms from the production of acetaldehyde from ethylene.		1 (0.454)
K010 Distillation side cuts from the production of acetaldehyde from ethylene.		1 (0.454)
K011 Bottom stream from the wastewater stripper in the production of acrylonitrile.		1 (0.454)
K013 Bottom stream from the acetonitrile column in the production of acrylonitrile.		1 (0.454)
K014 Bottoms from the acetonitrile purification column in the production of acrylonitrile.		5000 (2270)
K015 Still bottoms from the distillation of benzyl chloride.		1 (0.454)
K016 Heavy ends or distillation residues from the production of carbon tetrachloride.		1 (0.454)
K017 Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.		1 (0.454)
K018 Heavy ends from the fractionation column in ethyl chloride production.		1 (0.454)
K019 Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.		1 (0.454)
K020 Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.		1 (0.454)
K021 Aqueous spent antimony catalyst waste from fluoromethanes production.		1 (0.454)
K022 Distillation bottom tars from the production of phenol/acetone from cumene.		1 (0.454)
K023 Distillation light ends from the production of phthalic anhydride from naphthalene.		5000 (2270)
K024 Distillation bottoms from the production of phthalic anhydride from naphthalene.		5000 (2270)

## LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds (kilograms)
K025..... Distillation bottoms from the production of nitrobenzene by the nitration of benzene....		1 (0.454)
K026..... Stripping still tails from the production of methyl ethyl pyridines.....		1000 (454)
K027..... Centrifuge and distillation residues from toluene diisocyanate production.....		1 (0.454)
K028..... Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.		1 (0.454)
K029..... Waste from the product steam stripper in the production of 1,1,1-trichloroethane.....		1 (0.454)
K030..... Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.		1 (0.454)
K031..... By-product salts generated in the production of MSMA and cacodylic acid.....		1 (0.454)
K032..... Wastewater treatment sludge from the production of chlordane.....		1 (0.454)
K033..... Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.		1 (0.454)
K034..... Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.		1 (0.454)
K035..... Wastewater treatment sludges generated in the production of creosote.....		1 (0.454)
K036..... Still bottoms from toluene reclamation distillation in the production of disulfoton.....		1 (0.454)
K037..... Wastewater treatment sludges from the production of disulfoton.....		1 (0.454)
K038..... Wastewater from the washing and stripping of phorate production.....		10 (4.54)
K039..... Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.		1 (0.454)
K040..... Wastewater treatment sludge from the production of phorate.....		1 (0.454)
K041..... Wastewater treatment sludge from the production of toxaphene.....		1 (0.454)
K042..... Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.		1 (0.454)
K043..... 2,6-dichlorophenol waste from the production of 2,4-D.....		10 (4.54)
K044..... Wastewater treatment sludges from the manufacturing and processing of explosives.....		10 (4.54)
K045..... Spent carbon from the treatment of wastewater containing explosives.....		100 (45.4)
K046..... Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.		10 (4.54)
K047..... Pink/red water from TNT operations.....		1 (0.454)
K048..... Dissolved air flotation (DAF) float from the petroleum refining industry.....		1 (0.454)
K049..... Slop oil emulsion solids from the petroleum refining industry.....		1 (0.454)
K050..... Heat exchanger bundle cleaning sludge from the petroleum refining industry.....		10 (4.54)
K051..... API separator sludge from the petroleum refining industry.....		1 (0.454)
K052..... Tank bottoms (leaded) from the petroleum refining industry.....		1 (0.454)
K060..... Ammonia still lime sludge from coking operations.....		1 (0.454)
K061..... Emission control dust/sludge from the primary production of steel in electric furnaces.		1 (0.454)
K062..... Spent pickle liquor from steel finishing operations.....		1 (0.454)
K069..... Emission control dust/sludge from secondary lead smelting.....		1 (0.454)
K071..... Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.		1 (0.454)
K073..... Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.		100 (45.4)
K083..... Distillation bottoms from aniline extraction.....		1 (0.454)
K084..... Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.		1 (0.454)
K085..... Distillation or fractionation column bottoms from the production of chlorobenzenes.....		1 (0.454)
K088..... 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.		

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
K087..... Decanter tank tar sludge from coking operations.....		100 (45.4)
K093..... Distillation light ends from the production of phthalic anhydride from ortho-xylene.....		5000 (2270)
K094..... Distillation bottoms from the production of phthalic anhydride from ortho-xylene.....		5000 (2270)
K095..... Distillation bottoms from the production of 1,1,1-trichloroethane.....		1 (0.454)
K096..... Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.....		1 (0.454)
K097..... Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.....		1 (0.454)
K098..... Untreated process wastewater from the production of toxaphene.....		1 (0.454)
K099..... Untreated wastewater from the production of 2,4-D.....		1 (0.454)
K100..... Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.....		1 (0.454)
K101..... Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.....		1 (0.454)
K102..... Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.....		1 (0.454)
K103..... Process residues from aniline extraction from the production of aniline.....		100 (45.4)
K104..... Combined wastewater streams generated from nitrobenzene/aniline chlorobenzenes.....		1 (0.454)
K105..... Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.....		1 (0.454)
K106..... Wastewater treatment sludge from the mercury cell process in chlorine production.....		1 (0.454)
K111..... Product washwaters from the production of dinitrotoluene via nitration of toluene.....		1 (0.454)
K112..... Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.....		1 (0.454)
K113..... Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.....		1 (0.454)
K114..... Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.....		1 (0.454)
K115..... Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.....		1 (0.454)
K116..... Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.....		1 (0.454)
K117..... Wastewater from the reaction vent gas scrubber in the production of ethylene bromide via bromination of ethene.....		1 (0.454)
K118..... Spent absorbent solids from purification of ethylene dibromide in the production of ethylene dibromide.....		1 (0.454)
K136..... Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.....		1 (0.454)

Footnotes:

\* - the RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches)

\*\* - the RQ for asbestos is limited to friable forms only

\*\*\* - indicates that this material appears by name in the Hazardous Materials Table

@ - indicates that the name was added by RSPA because (1) the name is a synonym for a specific hazardous substance and (2) the name appears in the Hazardous Materials Table as a proper shipping name.

5. In the first column of page 42195, paragraph (e) of § 172.102 is correctly revised to read as follows:

**§ 172.102 Purpose and use of Optional Hazardous Materials Table for International Shipments.**

(e) When an appropriate shipping name from the Optional Table is used to describe a hazardous material which is also a hazardous substance, the additional description requirements for

hazardous substances in §§ 172.203(c) and 172.324 are applicable.

6. In § 172.203, paragraph (c) which begins in the first column of page 42195 is correctly revised to read as follows:

**§ 172.203 Additional description requirements.**

(c) *Hazardous substances.* (1) If the proper shipping name for a material that is a hazardous substance does not

identify the hazardous substance by name, one of the following descriptions shall be entered, in parentheses, in association with the basic description:

(i) The name of the hazardous substance as shown in the appendix to § 172.101; or

(ii) For waste streams, the waste stream number; or

(iii) For wastes which exhibit an EPA characteristic of ignitability, corrosivity, reactivity, or EP toxicity, the letters "EPA" followed by the word

"ignitability", or "corrosivity", or "reactivity", or "EP toxicity", as appropriate or the corresponding "D" number, as appropriate.

(2) The letters "RQ" shall be entered on the shipping paper either before or after the basic description required by § 172.202 for each hazardous substance. For example: "RQ, Cresol, Corrosive material, UN 2076"; or "Hazardous substance, solid, n.o.s., ORM-E, NA9188, (Adipic acid), RQ".

\* \* \* \* \*

7. Beginning in the second column of page 42195, § 172.324 is correctly revised to read as follows:

**§ 172.324 Hazardous substances.**

For each package with a capacity of 110 gallons or less that contains a hazardous substance—

(a) If the proper shipping name does not identify the hazardous substance by name, one of the following descriptions shall be marked on the package, in parentheses, in association with the proper shipping name:

(1) The name of the hazardous substance as shown in the appendix to § 172.101; or

(2) For waste streams, the waste stream number; or

(3) For wastes which exhibit an EPA characteristic of ignitability, corrosivity,

reactivity, or EP toxicity, the letters "EPA" followed by the word "ignitability", or "corrosivity", or "reactivity", or "EP toxicity", as appropriate or the corresponding "D" number, as appropriate.

(b) The letters "RQ" shall be marked on the package in association with the proper shipping name.

Issued in Washington, DC, on January 30, 1987, under authority delegated in 49 CFR 1.53.

**M. Cynthia Douglass,**

*Administrator, Research and Special Programs Administration.*

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