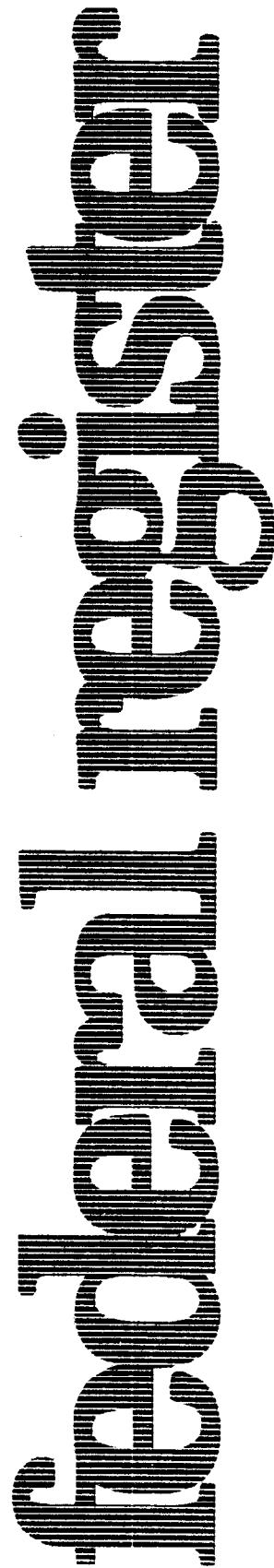

**Friday
November 21, 1986**



Part IV

**Department of
Transportation**

**Research and Special Programs
Administration**

**49 CFR Parts 171 and 172
Hazardous Substances; Final Rule**

LAWRENCE

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

AGENCY: Research and Special Programs Administration (RSPA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: This final rule amends the Hazardous Materials Regulations (HMR) by incorporating into these regulations, as hazardous materials, substances designated as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA); Pub. L. 96-510). This action is necessary to comply with the Superfund Amendments and Reauthorization Act of 1986. The intended effect of this action is to enable carriers of hazardous materials to specifically identify CERCLA hazardous substances and to make the required notification if a discharge occurs.

EFFECTIVE DATE: This regulation is effective January 1, 1987. Under this final rule, the exceptions provided in 49 CFR 172.101(j) will apply only to a hazardous substance that is subject to an entry in the 49 CFR 172.101 Table prior to January 1, 1987, unless there is a difference in its reportable quantity as specified in the Appendix adopted herein.

FOR FURTHER INFORMATION CONTACT: Lee Jackson (202) 366-4488 or George Cushman (202) 366-4545, 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:**I. Background**

On October 17, 1986, the President signed into law the Superfund Amendments and Reauthorization Act of 1986 (Pub. L. 99-499), which made several important changes to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). Section 202 of Pub. L. 99-499 amended section 306 of CERCLA to require that the Secretary list and regulate hazardous substances listed or designated under section 101(14) of CERCLA as hazardous

materials within thirty days of enactment of the Amendments. RSPA is today publishing a final rule under Docket HM-145F to fulfill this requirement.

RSPA has been considering incorporating CERCLA hazardous substances into the Hazardous Materials Regulations (HMR, 49 CFR Parts 171-179) under Docket HM-145E, and published both an advance notice of proposed rulemaking (ANPRM, 49 FR 35965, August 8, 1983) and a notice of proposed rulemaking (NPRM, 51 FR 22902, June 23, 1986) dealing with these issues. The Superfund Amendments of 1986 have overtaken most of the issues presented in these two notices. In this final rule, RSPA has selected the most practical method of listing and regulating hazardous substances in order to comply with the statutory deadline. A few issues remain, such as whether or not to remove the hazardous substance discharge notification requirement found at 49 CFR 171.17 from the HMR. These issues will be dealt with in the future under Docket HM-145E. Issues raised in HM-145E which are dealt with in this final rule will not be raised again under Docket HM-145E.

Today's rule includes a list of current hazardous substances with their reportable quantities (RQs), furnished by the U.S. Environmental Protection Agency (EPA). This list appears in an Appendix to § 172.101 (Appendix) which replaces the CERCLA List. In addition, the rule contains amendments which apply the HMR to these hazardous substances. It is RSPA's intention to make changes from time to time to the list of hazardous substances or their RQs in the Appendix as adjustments are made by EPA.

The listing of hazardous substances and application of the HMR to them in this rule is being done differently from procedures which have been required until now. Formerly, hazardous substances were integrated into the Hazardous Materials Table (Table) found at 49 CFR 172.101. This listing of hazardous substances in the Table contained the normal complement of entries (i.e., proper shipping name, hazard class, identification number, required labels, packaging requirements, quantity limitations aboard aircraft, and entries for water shipments), and in addition, for each hazardous substance, the notation "E" was placed in column 1 with an italicized "RQ" notation in column 2 following the proper shipping name which in turn was followed by two numbers: the reportable quantity in both pounds and kilograms. When a hazardous substance was shipped (and by definition, at least a reportable

quantity of the material had to be present in the package), both the shipping paper and the package (unless it was a bulk package (greater than 110 gallons)) had to bear the notation "RQ". This was to alert persons that a reportable quantity of a hazardous substance was present, and, should a spill occur, require the spill to be reported to the National Response Center (NRC).

In this final rule, RSPA is not integrating hazardous substances into the Table, but is placing them in a separate list, along with the reportable quantity for each substance, in the Appendix. In fact, this rule removes the special notations ("E" in column 1 and "RQ" and quantities in column 2) for hazardous substances presently in the Table. Where the hazard class for the hazardous substance is "ORM-E" (Other Regulated Material, category E), which means that that material does not meet any DOT hazard class definition except ORM-E, and is regulated only because it is a hazardous substance, the entire entry is removed from the Table. All specified hazardous substances listed and regulated under the HMTA are now found in the separate list in the Appendix. The only generic hazardous substance entry now present in the Table is "Hazardous substance, liquid or solid, n.o.s." The hazard class is ORM-E and the identification (ID) number is NA 9188. One other ORM-E entry remains in the table, i.e., "Hazardous waste, liquid or solid, n.o.s."; ID number NA 9188. Materials which are designated hazardous substances and which satisfy a DOT hazard class other than ORM-E will be listed in both the Table and the Appendix, but the special notations no longer appear in the Table. This rule also removes the "CERCLA List" that appears after the Table and replaces that list with the Appendix.

RSPA has chosen this approach because of the great difficulty RSPA has with classing these materials. In order to place them in the Table, RSPA must determine their proper hazard class, using the hazard class definitions found in the HMR. RSPA has not been able to do this in a timely fashion due to the inherent differences in the technical and programmatic approach to these materials taken by RSPA and EPA on whose initial determinations RSPA relies.

EPA adjusted the reportable quantities of a number of hazardous substances in a final rule published on April 4, 1985 (50 FR 13456). Following this rule, RSPA published the notice of proposed rulemaking (NPRM) under Docket HM-145E. In the NPRM, RSPA

proposed to integrate approximately 200 of these hazardous substances into the Table. Although RSPA has information from EPA on the physical, chemical, and toxicological properties of those materials, this NPRM was not published until June 23, 1986. This was due to the difficulty in determining the proper hazard class for the materials because they were either not suited to the established process for hazardous materials classification or because many of them were relatively obscure materials. In some cases DOT was not even able to establish the physical state (solid, liquid, or gas) for the materials designated by EPA. Given the size of this problem and the short time available to issue regulations in accordance with Pub. L. 99-499, RSPA has decided to abandon this approach and let shippers, who should know the properties of their materials, determine their proper shipping names, hazard classes, and the correct identification numbers. To do this, a shipper has the Table with its specific and generic entries, the hazard class definitions contained in Part 173, and the list of hazardous substances, including their RQ's, as designated by EPA in the Appendix. Under the HMR it has always been the responsibility of the shipper to class each material for shipment (except for explosives which require prior laboratory testing), and that responsibility remains in this final rule.

RSPA is aware that this approach will create some inconsistencies in the application of the regulations. For example, asbestos is presently regulated as an ORM-C, but the regulations only apply to asbestos that has commercial value, not waste asbestos. The packaging for commercial asbestos is specified at § 173.1090. However, asbestos is on the EPA list of hazardous substances at a reportable quantity of one pound, and this applies to all asbestos, commercial and waste, provided it is in a friable (loose) form. Therefore, under this rule commercial asbestos is regulated as an ORM-C, with packaging specified at § 173.1090, and waste asbestos is regulated as an ORM-E, with packaging specified at § 173.1300. This inconsistency occurs because of the statutory mandate in the Superfund Amendments to regulate all hazardous substances. RSPA will undertake regulatory action in the near future to correct this and other inconsistencies. Because the determination of the appropriate degree of regulation is discretionary, unlike today's action which is based on a statutory mandate, the future

rulemaking will provide for notice and comment. Interested persons should withhold their comments until that notice is published.

Other than the expanded list of hazardous substances and the relocation of hazardous substances from the table to the Appendix, the regulatory requirements remain essentially the same. The shipper will have to determine the hazard class and proper shipping name for the material and the authorized packaging for the material using the Table and the packing authorizations contained in Part 173. When a hazardous substance is present in a shipment (i.e., there is a reportable quantity or more of the designated material in the package), the shipping paper entry must contain the notation "RQ". This requirement is unchanged. When the proper shipping name does not contain the name of the constituents which make the material a hazardous substance, that information must be added in association with the basic description. This requirement is also unchanged. In the case of waste streams, RSPA is requiring the use of the EPA waste number instead of the entire narrative waste stream description. The EPA waste number for the waste stream must be entered in association with the proper shipping name. In the case of a hazardous substance which satisfies one of the EPA "ICRE" hazardous waste characteristics of ignitability, corrosivity, reactivity, or extraction procedure toxicity (EP toxicity), the requirement for additional information must be satisfied by using the letters, "EPA" followed by the word "ignitability", or "corrosivity", or "reactivity", or "EP toxicity", as appropriate, in association with the basic description.

Procedures for marking non-bulk packagings (those of 110 gallons or less) also remain essentially the same. The "RQ" notation is required when a hazardous substance is present and if the proper shipping name does not include the constituent or constituents which make the material a hazardous substance, that information must be added in association with the proper shipping name. As is the case with shipping papers, when the hazardous substance is a waste stream or a waste material exhibiting an EPA "ICRE" characteristic, the additional identifying information required in the marking in association with the proper shipping name must be the waste stream number or, for the ICRE materials, the letters "EPA" and the word "ignitability", or "corrosivity", or "reactivity", or "EP toxicity" as appropriate.

The regulatory action in this final rule is mandated by statute, and, for this reason, with one exception, RSPA is not affording persons affected by this rule the relief afforded by § 172.101(j) which allows up to one year after a change in the Table to use up stocks of preprinted shipping papers and to ship packages that were marked prior to the change. The exception is that RSPA is allowing preprinted shipping papers to be used and previously marked packages of hazardous substances to be transported if prepared in conformance with the requirements for hazardous substances prior to January 1, 1987. For example, shipping papers for a hazardous substance which read: "RQ, Adipic acid, ORM-E, NA9077", may be used until exhausted or until January 1, 1988, whichever comes first. After exhaustion or one year, such a shipment would have to be described as: "RQ, Hazardous substance, solid, n.o.s., ORM-E, NA9188, (adipic acid)". This also applies to marked packages. However, if the reportable quantity for the material has changed and the shipping paper entry or package marking does not reflect the reportable quantity as it appears in the Appendix in this rule, the shipment does not qualify for the exception in § 172.101(j) and must comply with the new requirements after January 1, 1987.

II. Review by Sections

Section 171.8. The definition of a hazardous material is revised to specifically include hazardous substances. The definition of a hazardous substance is revised to reference a new Appendix to § 172.101 which follows the Hazardous Materials Table (Table) at § 172.101. This Appendix replaces the CERCLA List currently shown and contains all hazardous substances and their reportable quantities. Reference to petroleum products has been removed from the hazardous substance definition since the determination of what materials should be designated as hazardous substances rests with EPA. Reference to "or in one transport vehicle if not packaged" has been removed since RSPA considers vehicles to be packagings when they are the primary means of containment (i.e., are used to transport materials in bulk).

Section 171.11. The wording of (d)(1)(i) of this section is amended to require the display of the waste stream number or "EPA" and the applicable ICRE characteristic on shipping papers.

Section 171.12a. The wording of (a)(3)(i) of this section is amended to require the display of the waste stream

number or "EPA" and the applicable ICRE characteristic on shipping papers.

Section 172.101, Preamble. Paragraph (b) is revised to eliminate all references to the letter "E" in the Table.

Subparagraph (c)(9) is revised to remove reference to "E" and "reportable quantity" and to add provisions for selecting proper shipping names for hazardous substances.

Section 172.101, Hazardous Materials Table. The Table is revised by removing the letter "E" from Column 1 of the Title heading and all places where it appears in Column 1 of the Table. All RQ designations and quantities are removed from the descriptions in Column 2 of the Table (for example, "(RQ-1000/454)"). The Table is revised by removing all entries for hazardous substances which only meet the definition of the ORM-E hazard class, with the exception of the generic entry "Hazardous substance, liquid or solid, n.o.s.". This includes removing the following five entries with "See" references to certain hazardous substances classed as ORM-E:

(1) 2,4-D ester. *See* 2,4-

Dichlorophenoxyacetic acid ester;

(2) EDTA. *See*

Ethylenediaminetetraacetic acid;
(3) PCB. *See* Polychlorinated biphenyls;

(4) 2,4,5-T amine, ester, or salt. *See* 2,4,5-Trichlorophenoxyacetic acid, amine, ester, or salt;

(5) 2,4,5-TP ester. *See* 2,4,5-

Trichlorophenoxypropionic acid ester.

The entry "Hazardous waste, liquid or solid, n.o.s." remains in the Table and continues to bear the ORM-E hazard class designation. Hazardous substances meeting only the DOT hazard class definition for ORM-E appear in the new Appendix to § 172.101, along with all of the other CERCLA hazardous substances. Certain hazardous substances which satisfy the definition of a DOT hazard class other than ORM-E remain in the Table and also appear in the new Appendix. However, the "E" symbol, "RQ", and quantities no longer appear in the Table for these materials.

Section 172.101, Appendix. The CERCLA List is removed and replaced by an Appendix entitled "List of Hazardous Substances and Reportable Quantities." The appendix lists those materials which are hazardous substances as listed or designated under Section 101(14) of CERCLA.

Section 172.102. Paragraph (e) of this section is amended to require display of the waste stream number or "EPA" and the applicable ICRE characteristic on shipping papers.

Section 172.203. Paragraph (c) is amended to reference the new Appendix

of hazardous substances which follows the Table and to require that hazardous substance constituents be shown in parentheses in association with the basic description, if the proper shipping name does not identify the hazardous substance constituents as shown in Appendix A to § 172.101. A new sentence is added to this section to require that a waste stream number or "EPA" and the applicable ICRE characteristic be shown, instead of the name of the constituent from the Appendix, in parentheses on the shipping paper in association with the basic description for those waste materials which are either waste streams or exhibit an ICRE characteristic.

Section 172.324. Paragraph (a) is revised to require the name of a hazardous substance constituent to be shown as a package marking, if the proper shipping name does not identify the hazardous substance constituent, as shown in the Appendix to § 172.101. Paragraph (b) is revised to require that all packages of 110 gallons or less that contain waste streams or waste exhibiting ICRE characteristics, be marked in association with the proper shipping name with the waste stream number or "EPA" and the appropriate ICRE characteristic in parentheses. Existing paragraph (b) is redesignated as paragraph (c).

III. Administrative Notices

1. Because the amendments adopted herein are mandated by the Superfund Amendments and Reauthorization Act of 1986 (Pub. L. 99-499, October 17, 1986), and are to be adopted within 30 days of enactment, I find under 5 U.S.C. 553, that notice and public procedure are contrary to the public interest. In addition, due to the limited time available to prepare this final rule, no determinations have been made under the Regulatory Flexibility Act (5 U.S.C. 601, *et seq.*).

2. Under the terms of "DOT Regulatory Policies and Procedures" (44 FR 11034, February 26, 1979), I have determined that this rulemaking is an emergency rulemaking because it is governed by a short-term statutory deadline, therefore, no determination is made as to whether it is "significant".

3. I certify that this rulemaking does not require 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 required analyses and make required findings under the statutory, regulatory, and executive authorities

noted above, the agency is aware that a rulemaking of such broad and immediate applicability may produce significant impacts on industry segments, a substantial number of which may be small enterprises. In order to comply with the mandate of Pub. L. 99-499, RSPA has chosen a regulatory approach which both complies with the purpose of the Congress and presents the least possible disruption to the regulatory scheme of the HMR.

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, there will be a mechanism for RSPA's oversight of the transportation impacts of these amendments as the agency conducts rulemaking to provide concordance with EPA requirements. As the need for adjustments to these amendments is demonstrated, RSPA will modify the requirements to the extent consistent with the intent of Congress expressed in Pub. L. 99-499.

List of Subjects

49 CFR Part 171

Hazardous materials transportation, Definitions.

49 CFR Part 172

Hazardous materials transportation, Hazardous substances.

In consideration of the foregoing Parts 171 and 172 of Title 49, Code of Federal Regulations are amended as follows:

PART 171—GENERAL INFORMATION, REGULATIONS, AND DEFINITIONS

1. The authority citation for Part 171 is revised to read as follows:

Authority: 49 U.S.C. 1802, 1803, 1804, and 1808; Pub. L. 99-499; and 49 CFR Part 1, unless otherwise noted.

2. In § 171.8, the definitions for "Hazardous material" and "Hazardous substances" are revised to read as follows:

§ 171.8 Definitions and abbreviations.

"Hazardous material" means a substance or material, including a hazardous substance, which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and which has been so designated.

"Hazardous substance" for the purposes of this subchapter, means a

material, including its mixtures and solutions, that—

- (1) Is listed in the Appendix to § 172.101 of this subchapter;
- (2) Is in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) listed in the Appendix to § 172.101 of this subchapter; and
- (3) When in a mixture or solution, is in a concentration by weight which equals or exceeds the concentration corresponding to the RQ of the material, as shown in the following table:

RQ pounds (kilograms)	Concentration by weight	
	Percent	PPM
5000 (2270)	10	100,000
1000 (454)	2	20,000
100 (45.4)	0.2	2,000
10 (4.54)	0.02	200
1 (0.454)	0.002	20

* * * * *

3. In § 171.11 paragraph (d)(1)(i) is revised to read as follows:

§ 171.11 Use of ICAO Technical Instructions.

- (d) * * *
- (1) * * *
- (i) The name of the hazardous substance shall be entered on shipping papers in parentheses in association with the basic description, and in association with the proper shipping name required to be marked on the package, unless the proper shipping name required by the ICAO Technical Instructions already includes the name of the hazardous substance. For waste streams or for wastes which exhibit an EPA characteristic of ignitability, corrosivity, reactivity, or EP toxicity, the basic description shall be followed by the waste stream number in parentheses or by the letters "EPA" and the word "ignitability" or "corrosivity" or "reactivity", or "EP toxicity", in parentheses, as appropriate; and

4. In § 171.12a, paragraph (a)(3)(i) is revised to read as follows:

§ 171.12a Canadian shipments and packagings.

- (a) * * *
- (3) * * *
- (i) The name of the hazardous substance shall be entered on shipping papers and in association with the proper shipping name required to be marked on the package, in parentheses, unless the proper shipping name required by the TDG regulations already includes the name of the hazardous substance. For waste streams or for wastes which exhibit an EPA characteristic of ignitability, corrosivity,

reactivity, or EP toxicity, the basic description shall be followed by the waste stream number in parentheses or by the letters "EPA" and the word "ignitability" or "corrosivity" or "reactivity", or "EP toxicity", in parentheses, as appropriate; and

PART 172—HAZARDOUS MATERIALS TABLE AND HAZARDOUS MATERIALS COMMUNICATIONS REGULATIONS

5. The authority citation for Part 172 is revised 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.

6. In § 172.101, paragraphs (b) and (c)(9) are revised to read as follows:

§ 172.101 Purpose and use of hazardous materials table.

(b) Column 1 contains the three symbols as appropriate: Plus (+) and the letters "A" and "W".

(1) The plus (+) fixes the proper shipping name and the hazard class for that entry without regard to whether the material meets the definition of that class. An alternate proper shipping name and hazard class may be authorized by the Director, Office of Hazardous Materials Transportation, RSPA.

(2) A letter "A" restricts the application of this subchapter to materials offered or intended for transportation by aircraft, unless the material is a hazardous substance or a hazardous waste.

(3) The letter "W" restricts the application of this subchapter to materials offered or intended for transportation by vessel, unless the material is a hazardous substance or a hazardous waste.

(c) * * *

(9) *Hazardous substance.* The Appendix to this section lists materials which are listed or designated as hazardous substances under section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Proper shipping names for hazardous substances (See Appendix and § 171.8 of this subchapter) shall be determined as follows:

(i) If the hazardous substance appears in the table by technical name, then the technical name is the proper shipping name.

(ii) If the hazardous substance does not appear in the table and is not a forbidden material (See §§ 173.21, 173.51, 183.88, and 173.114a of this subchapter), then an appropriate generic

shipping name must be selected corresponding to the hazard class of the material as determined by the defining criteria of this subchapter and the hazard precedence prescribed in § 173.2 of this subchapter. For example, a hazardous substance which meets the definition of a flammable liquid might be described as "Flammable liquid, n.o.s." or other appropriate shipping name corresponding to the flammable liquid hazard class.

* * * * *

7. In § 172.101, the Hazardous Materials Table is amended as follows:

a. "E/" is removed from the heading of Column 1;

b. The symbol "E" is removed from Column 1;

c. All reportable quantity (RQ) designations and quantities are removed from the descriptions in Column 2 (e.g., "(RQ-1000/454)");

d. The phrase "(these materials may contain various hazardous substances for which the appropriate RQ applies)" is removed from the Column 2 entry for "Motor fuel antiknock compound";

e. All entries in the table that are classed "ORM-E" as shown in Column 3 are removed from the table, except for the following two generic entries: "Hazardous substance, liquid or solid, n.o.s." and "Hazardous waste, liquid or solid, n.o.s.", and

f. The following five "See" references to certain materials classed ORM-E are removed from the table:

(a) "2,4-D ester. See 2,4-Dichlorophenoxyacetic acid ester";

(b) "EDTA. See Ethylenediaminetetraacetic acid";

(c) "PCB. See Polychlorinated biphenyls";

(d) "2,4,5-T amine, ester, or salt. See 2,4,5-Trichlorophenoxyacetic acid, amine, ester, or salt"; and

(e) "2,4,5-TP ester. See 2,4,5-Trichlorophenoxypropionic acid ester".

8. The CERCLA list which follows the Table is removed and an Appendix to § 172.101 is 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 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 and their corresponding "F numbers". They are listed in numerical sequence by "F number". Column 2 of the list, entitled "Synonyms", contains the names of synonyms for certain of the elements and

are listed for waste streams. Synonyms are useful in identifying hazardous substances and in selecting 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 compound listed in Column 1. No synonyms

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 materials. These notes are explained at the end of the list.

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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-Acetylaminofluorene	1 (0.454)
Acetamide, 2-fluoro-	Fluoroacetamide	100 (45.4)
Acetic acid *	Ethyl acetate	5000 (2270)
Acetic acid, ethyl ester	Fluoroacetic acid, sodium salt	5000 (2270)
Acetic acid, fluoro-, sodium salt	Lead acetate	10 (4.54)
Acetic acid, lead salt	Thallium(I) acetate	5000 (2270)
Acetic acid, thallium(I) salt	Methoxyl	100 (45.4)
Acetic anhydride *	2-Propanone	5000 (2270)
Acetimic acid, N-[{(methylcarbamoyloxy)oxy}thio-methyl ester]	Propanenitrile, 2-hydroxy-2-methyl-	10 (4.54)
Acetone *	2-Methylacrylonitrile	
Acetone cyanohydrin *	Ethanenitrile	
	Warfarin	5000 (2270)
Acetonitrile *	Ethanone, 1-phenyl-	100 (45.4)
3-(alpha-Acetoxybenzyl)-4-hydroxycoumarin and salts	Acetamide, N-fluoren-2-yl-	5000 (2270)
Acetophenone	Ethanol chloride	1 (0.454)
2-Acetylaminofluorene	Acetamide, N-(aminothioxomethyl)-	5000 (2270)
Acetyl bromide *	2-Propenal	1 (0.454)
Acetyl chloride *	2-Propenamide	5000 (2270)
1-Acetyl-2-thiourea	2-Propenoic acid	5000 (2270)
Acrolein *	2-Propenenitrile	100 (45.4)
Acrylamido	Melphalan	5000 (2270)
Acrylic acid *	Propanal, 2-methyl-2-(methylthio)-	1 (0.454)
Acrylonitrile *	O-[(methylamino)carbonyl]oxime	1 (0.454)
Adipic acid	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-	
Alanine, 3-[p-bis(2-chloroethyl)amino]phenyl-L-	1,4,5,8-endo,exo-dimethanonaphthalene	1 (0.454)
Aldicarb	2-Propen-1-ol	
Aldrin *		
Allyl alcohol *		100 (45.4)
Allyl chloride *		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)
Amitrole	1H-1,2,4-Triazol-3-amine	1 (0.454)
Aminonia *		100 (45.4)
Ammonium acetate		5000 (2270)
Ammonium benzoate	Ammonium dichromate @	5000 (2270)
Ammonium bicarbonate		5000 (2270)
Ammonium bichromate		1000 (454)
Ammonium bisulfide *		100 (45.4)
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 sulfate		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)
Aryl acetate *		5000 (2270)
iso-Amyl acetate		
sec-Amyl acetate		
tert-Amyl acetate		
Aniline *	Benzanamine	5000 (2270)
Arithracene		5000 (2270)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Antimony ⁶		5000 (2270) ^{..}
ANTIMONY AND COMPOUNDS		
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 ⁶	Arsenic trioxide [*]	1 (0.454) ^{..}
Arsenic acid [*]		1 (0.454)
ARSENIC AND COMPOUNDS		
Arsenic disulfide [*]		5000 (2270)
Arsenic(III) oxide [*]		5000 (2270)
Arsenic(V) oxide [*]		5000 (2270)
Arsenic pentoxide [*]		5000 (2270)
Arsenic Trichloride [*]		5000 (2270)
Arsenic Trioxide [*]		5000 (2270)
Arsenic Insulfide [*]		5000 (2270)
Arsine, diethyl-	Diethylarsine	1 (0.454)
Asbestos ⁶		1 (0.454)
Auramine	Benzanamine, 4,4'-carbonimidoyl bis (N,N-dimethyl-	1 (0.454)
Azaserine	L-Serine, diazoacetate (ester)	1 (0.454)
Azidine	Ethylaminine	1 (0.454)
Azinphos methyl @	Guthion [*]	1 (0.454)
Azino(2',3')3,4-pyrido[1,2-a]indole-4,7-dione-6-amino-8-((aminocarbonyloxy)oxy)	Mitomycin C	1 (0.454)
Barium cyanide [*]		10 (4.54)
Benz[1]aceanthrylene, 1,2-dihydro-3-methyl-	3-Methylcholanthenone	1 (0.454)
Benz[1]acridine	3,4-Benzacridine	1 (0.454)
3,4-Benzacridine	Benz[1]acridine	1 (0.454)
Benzal chloride	Benzene, dichloromethyl-	5000 (2270)
Benz[1]anthracene	Benz[1]anthracene	1 (0.454)
1,2-Benzanthracene	1,2-Benzanthracene	
1,2 Benzanthracene, 7,12-dimethyl-	Benz[a]anthracene	1 (0.454)
Benzanine	7,12-Dimethylbenz[a]anthracene	1 (0.454)
Benzanine, 4,4'-carbonimidoyl bis (N,N-dimethyl-	Aniline	5000 (2270)
Benzanine, 4-chloro-	Auramine	1 (0.454)
Benzanine, 4-chloro-2-methyl-, hydrochloride	p-Chloroaniline	1000 (454)
Benzanine, N,N-dimethyl-4-phenylazo-	4-Chloro-o-toluidine, hydrochloride	1 (0.454)
Benzanine, 4,4'-methylenebis(2-chloro-	Dimethylaminobenzene	1 (0.454)
Benzanine, 2-methyl-, hydrochloride	4,4'-Methylenebis(2-chloroaniline)	1 (0.454)
Benzanine, 2-methyl-5-nitro-	o-Toluidine hydrochloride	1 (0.454)
Benzanine, 4-nitro-	5-Nitro-o-toluidine	1 (0.454)
Benzene [*]	p-Nitroaniline	5000 (2270)
Benzene, 1-bromo-4-phenoxy-	4-Bromophenyl phenyl ether	1000 (454)
Benzene, chloro-	Chlorobenzene	100 (45.4)
Benzene, chloromethyl-	Benzyl chloride	100 (45.4)
Benzene, 1,2-dichloro-	o-Dichlorobenzene	100 (45.4)
Benzene, 1,3-dichloro-	1,2-Dichlorobenzene	
Benzene, 1,4-dichloro-	m-Dichlorobenzene	100 (45.4)
Benzene, dichloromethyl-	1,3-Dichlorobenzene	
Benzene, 2,4-disocyanatomethyl-	p-Dichlorobenzene	100 (45.4)
Benzene, dimethyl-	1,4-Dichlorobenzene	
m-Benzene, dimethyl	Benzal chloride	5000 (2270)
o-Benzene, dimethyl	Toluene diisocyanate	100 (45.4)
p-Benzene, dimethyl	Xylene [*] (mixed)	1000 (454)
Benzene, hexachloro-	m-Xylene	
Benzene, hexahydro-	o-Xylene	
Benzene, hydroxy-	p-Xylene	
Benzene, methyl-	Hexachlorobenzene	1 (0.454)
Benzene, 1-methyl-2,4-dinitro-	Cyclohexane	1000 (454)
Benzene, 1-methyl-2,6-dinitro-	Phenol	1000 (454)
Benzene, 1,2-methylenedioxy-4-allyl-	Toluene	1000 (454)
Benzene, 1,2-methylenedioxy-4-propenyl-	2,4-Dinitrotoluene	1000 (454)
Benzene, 1,2-methylenedioxy-4-propyl-	2,6-Dinitrotoluene	1000 (454)
Benzene, 1-methylethyl-	Safrole	1 (0.454)
Benzene, nitro-	Isosafrole	1 (0.454)
Benzene, pentachloro-	Dihydrosafrole	1 (0.454)
Benzene, pentachloronitro-	Cumene	5000 (2270)
Benzene, 1,2,4,5-tetrachloro-	Nitrobenzene [*]	1000 (454)
Benzene, trichloromethyl-	Pentachlorobenzene	10 (4.54)
Benzene, 1,3,5-trinitro-	1,2,4,5-Tetrachlorobenzene	1 (0.454)
Benzeneacetic acid, 4-chloro alpha-(4-chlorophenyl)-alpha-hydroxy, ethyl ester	Benzotrichloride	5000 (2270)
2-Benzenedicarboxylic acid anhydride	sym-Trinitrobenzene [*]	1 (0.454)
2-Benzenedicarboxylic acid, [bis(2-ethylhexyl)] ester	Ethyl 4,4'-dichlorobenzilate	1 (0.454)
1,2-Benzenedicarboxylic acid, dibutyl ester	Phthalic anhydride	5000 (2270)
1,2-Benzenedicarboxylic acid, diethyl ester	Bis(2-ethylhexyl)phthalate	1 (0.454)
	Di-n-butyl phthalate	10 (4.54)
	Diethyl phthalate	
	n-Butyl phthalate [*]	
	Diethyl phthalate	1000 (454)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
1,2-Benzenedicarboxylic acid, dimethyl ester	Dimethyl phthalate	5000 (2270)
1,2-Benzenedicarboxylic acid, di-n-octyl ester	Di-n-octyl phthalate	5000 (2270)
1,3-Benzeneol	Resorcinol	5000 (2270)
1,2-Benzeneol,4-[1-hydroxy-2-(methylaminoethyl)]-	Epinephrine	1000 (454)
Benzenesulfonic acid chloride	Benzenesulfonyl chloride	100 (454)
Benzenesulfonyl chloride	Benzenesulfonic acid chloride	100 (454)
Benzenethiol	Phenyl mercaptan @	100 (454)
Benzidine *	Thiophenol	100 (454)
1,2-Benzisothiazolin-3-one,1,1-dioxide, and salts	(1,1'-Biphenyl)-4,4'-diamine	1 (0.454)
Benz(a)anthracene	Saccharin and salts	1 (0.454)
Benzo(b)fluoranthene	Benz(a)anthracene	1 (0.454)
Benzo(k)fluoranthene	1,2 Benzanthracene	
Benzo(1,2-k)fluorene	Fluoranthene	
Benzoic acid		
Benzonitrile *		
Benzo(ghi)perylene		
Benzol a)pyrene	3,4 Benzopyrene	1 (0.454)
3,4-Benzopyrene	Benzol a)pyrene	1 (0.454)
p-Benzoylpheno	1,4 Cyclohexadenedione	10 (4.54)
Benzoylchloride	Benzene, trichloromethyl-	1 (0.454)
Benzoyl chloride *		
1,2-Benzanthracene	Chrysene	1000 (454)
Benzyl chloride *	Benzene, chloromethyl-	100 (454)
Beryllium t.	Beryllium dust @	100 (454)
BERYLLIUM AND COMPOUNDS	Beryllium t.	1 (0.454)
Beryllium chloride *		
Beryllium dust @		5000 (2270)
Beryllium fluoride *		1 (0.454)
Beryllium nitrate *		5000 (2270)
alpha - BHC		5000 (2270)
beta - BHC		1 (0.454)
delta - BHC		1 (0.454)
gamma - BHC		1 (0.454)
2,2'-Bioxirane		
(1,1'-Biphenyl)-4,4'-diamine	1,2,3,4-Diepoxybutane	1 (0.454)
(1,1'-Biphenyl)-4,4'-diamine,3,3'-dimethyl-	Benzidine *	1 (0.454)
(1,1'-Biphenyl)-4,4'-diamine,3,3 dichloro-	3,3'-Dimethylbenzidine	1 (0.454)
(1,1'-Biphenyl)-4,4'-diamine,3,3 dimethoxy-	3,3'-Dichlorobenzidine	1 (0.454)
Bis(2-chloroethoxy) methane	3,3'-Dimethoxybenzidine	1 (0.454)
Bis(2-chloroethyl) ether	Ethane, 1,1'-(methylenebis(oxy))bis[2-chloro-	1000 (454)
	Dichloroethyl ether	1 (0.454)
	Ethane, 1,1'-oxybis[2-chloro-	1 (0.454)
Bis(2-chloroisopropyl) ether	Propane, 2,2'-oxybis[2-chloro-	1000 (454)
Bis(chloromethyl) ether	Methane, oxybis(chloro-	1 (0.454)
Bis(dimethylthiocarbamoyl) disulfide	Thiram	10 (4.54)
Bis(2-ethylhexyl)phthalate	1,2-Benzenedicarboxylic acid, [bis(2-ethylhexyl)]ester	1 (0.454)
Bromine cyanide	Cyanogen bromide	1000 (454)
Bromoacetone *	2-Propanone, 1-bromo-	1000 (454)
Bromoform	Methane, tribromo	100 (45.4)
4-Bromophenyl phenyl ether	Benzene, 1-bromo-4-phenoxy-	100 (45.4)
Brucine	Strychnidin-10-one, 2,3-dimethoxy-	100 (45.4)
1,3-Butadiene, 1,1,2,3,4,4 hexachloro-	Hexachlorobutadiene	10 (4.54)
1-Butanamine, N-butyl-N-nitroso-	N-Nitrosodi-n-butylamine	1 (0.454)
Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene-	Chlorambucil	1 (0.454)
1-Butanol	n-Butyl alcohol *	5000 (2270)
2-Butanone	Ethyl methyl ketone @	5000 (2270)
2-Butanone peroxide	Methyl ethyl ketone *	10 (4.54)
2-Butenal	Methyl ethyl ketone peroxide *	100 (45.4)
2-Butene, 1,4-dichloro-	Crotonaldehyde *	1 (0.454)
Butyl acetate *	1,4-Dichloro-2-butene *	5000 (2270)
iso-Butyl acetate		
sec-Butyl acetate		
tert-Butyl acetate		
n-Butyl alcohol *	1-Butanol	
Butylamine *		
iso-Butylamine	1-Butanol	5000 (2270)
sec-Butylamine		1000 (454)
tert-Butylamine		
Butyl benzyl phthalate		
n-Butyl phthalate *	Di-n-butyl phthalate	100 (45.4)
	Di- <i>b</i> utyl phthalate	10 (4.54)
	1,2 Benzenedicarboxylic acid, dibutyl ester	5000 (2270)
Butyric acid *		
iso-Butyric acid		
Cacodylic acid	Hydroxydimethylarsine oxide	1 (0.454)
Cadmium t.		1 (0.454)
Cadmium acetate		100 (45.4)
CADMIUM AND COMPOUNDS		**
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 dodecybenzene sulfonate		1000 (454)
Calcium hypochlorite *		10 (4.54)
Camphene, octachloro-	Toxaphene *	1 (0.454)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds(Kilograms)
Captan		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)
Carbamimidoselenoc 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, diethylammonium (I) salt	Thallium(I) carbonate	100 (45.4)
Carboxychloride acid, methyl ester	Methyl chlorocarbonate	1000 (454)
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 MIXTURE AND METABOLITES)		1 (0.454)
Chlordane, technical *	Chlordane *	**
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-		**
CHLORINATED BENZENES		**
CHLORINATED ETHANES		**
CHLORINATED NAPHTHALENE		**
CHLORINATED PHENOLS		**
Chlorine *		10 (4.54)
Chlorine cyanide	Cyanogen chloride *	10 (4.54)
'Chloraphazine	2-Naphthylamine, N,N-bis(2-chloroethyl)-	1 (0.454)
Chloracetaldehyde	Acetaldehyde, chloro-	1000 (454)
CHLOROALKYL ETHERS		**
p-Chloroaniline	Benzanamine, 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-	5000 (2270)
Chlorodibromomethane	Phenol, 4-chloro-3-methyl-	5000 (2270)
1-Chloro 2,3-epoxypropane	4-Chloro-m-cresol	100 (45.4)
Chloroethane	Epichlorohydrin *	1000 (454)
2-Chloroethyl vinyl ether	Oxirane, 2-(chloromethyl)-	
Chloroform *	Ethyl chloride @	1 (0.454)
Chromomethane	Ethene, 2-chloroethoxy-	1000 (454)
Chloromethyl methyl ether	Methane, trichloro-	5000 (2270)
beta-Chloronaphthalene	Methane, chloro-	1 (0.454)
2-Chloronaphthalene	Methyl chloride	
2-Chlorophenol	Methane, chloromethoxy-	1 (0.454)
o-Chlorophenol	Methylchloromethyl ether @	5000 (2270)
4-Chlorophenyl phenyl ether	Naphthalene, 2-chloro-	5000 (2270)
1-(o-Chlorophenyl)thiourea	2-Chloronaphthalene	5000 (2270)
3-Chloropropionitrile	beta-Chloronaphthalene	5000 (2270)
Chirospuronic acid *	Naphthalene, 2-chloro-	100 (45.4)
4-Chloro-c-toluidine, hydrochloride	o-Chlorophenol	100 (45.4)
Chirypynios *	Phenol, 2-chloro-	100 (45.4)
Chromic acetate	Phenol, 2-chloro-	100 (45.4)
Chromic acid *	2-Chlorophenol	100 (45.4)
Chromic acid, calcium salt		
Chromic sulfate *	Thiourea, (2-chlorophenyl)-	5000 (2270)
Chromium §	Propanenitrile, 3-chloro-	100 (45.4)
CHROMIUM AND COMPOUNDS	Benzanamine, 4-chloro-2-methyl-, hydrochloride	1000 (454)
Chromous chloride		1000 (454)
Chrysene	Calcium chromate	1000 (454)
Cobaltous bromide	1,2-Benzphenanthrene	1 (0.454)
Cobaltous formate		1000 (454)
Cobaltous sulfate		1000 (454)
Coke Oven Emissions		1 (0.454)
Copper †		5000 (2270)
COPPER AND COMPOUNDS	-	**
Copper cyanide *		10 (4.54)
Cuprammonium		10 (4.54)
Cresote		1 (0.454)
Cresols *	Cresylic 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)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
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		**
Cyanides (soluble cyanide salts), not elsewhere specified *		10 (4.54)
Cyanogen		100 (45.4)
Cyanogen bromide *		1000 (454)
Cyanogen chloride *		10 (4.54)
1,4-Cyclohexadienedione	p-Benzozquinone	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 *	100 (45.4)
2,4-D Esters *	2,4-D Acid	100 (45.4)
2,4-D *, salts and esters *	2,4-Dichlorophenoxyacetic acid *, salts and esters *	100 (45.4)
Daunomycin	5,12-Naphthacenedione, (8S-cis)-8-acetyl-13-amino-2,3,6-Indeoxy-alpha-L-lyxo-hexopyranosyloxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-	1 (0.454)
DDD	Dichlorodiphenyl dichloroethane	1(0 454)
4,4' DDD	TDE *	
	DDD	1(0 454)
	Dichlorodiphenyl dichloroethane	
	TDE *	
4,4' DDE	4,4' DDE	1 (0.454)
DDT *	DDE	1 (0.454)
4,4'DDT	Dichlorodiphenyl trichloroethane *	1 (0.454)
	4,4 DDT	
	Dichlorodiphenyl trichloroethane *	1 (0.454)
DDT AND METABOLITES		**
Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one		1 (0.454)
Diallate	S-(2,3-Dichloroallyl) disopropylthiocarbamate	1 (0.454)
Diamine	Hydrazine *	1 (0.454)
2,4-Diaminotoluene	2,4-Toluenediamine *	1 (0.454)
Diazinon *	Toluene, 2,4-diamine.	
Dibenz[a,h]anthracene	Dibenz[a,h]anthracene	1 (0.454)
1,2,5,6-Dibenzanthracene	1,2,5,6-Dibenzanthracene	1 (0.454)
Dibenzo[a,h]anthracene	Dibenzo[a,h]anthracene ..	1 (0.454)
1,2,7,8-Dibenzopyrene	Dibenzo[a,h]anthracene ..	1 (0.454)
Dibenzo[a,i]pyrene	Dibenzo[a,h]anthracene ..	1 (0.454)
1,2-Dibromo-3-chloropropane	Dibenzo[a,h]anthracene ..	1 (0.454)
Diethyl phthalate	1,2,5,6-Dibenzanthracene ..	1 (0.454)
Di-n-butyl phthalate	Dibenzo[a,i]pyrene	1 (0.454)
	1,2,7,8-Dibenzopyrene	1 (0.454)
	Propane, 1,2-dibromo-3-chloro-	1 (0.454)
	Di-n-butyl phthalate	10 (4.54)
	n-Butyl phthalate *	
	1,2-Benzenedicarboxylic acid, diethyl ester	
	Diethyl phthalate	
	n-Butyl phthalate *	
	1,2-Benzenedicarboxylic acid, diethyl ester	
Dicamba		1000 (454)
Dichlobenil		100 (45.4)
Dichlorene		1 (0.454)
S-(2,3-Dichloroallyl) disopropylthiocarbamate	Pronamide ..	1 (0.454)
3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide	Benzene, 1,2-dichloro-	5000 (2270)
Dichlorobenzene (mixed)	o-Dichlorobenzene *	100 (45.4)
1,2-Dichlorobenzene	Benzene, 1,3-dichloro-	100 (45.4)
1,3-Dichlorobenzene	m-Dichlorobenzene ..	100 (45.4)
1,4-Dichlorobenzene	Benzene, 1,4-dichloro-	100 (45.4)
m-Dichlorobenzene	p-Dichlorobenzene *	100 (45.4)
o-Dichlorobenzene *	Benzene, 1,3-dichloro-	100 (45.4)
p-Dichlorobenzene *	1,3-Dichlorobenzene	100 (45.4)
DICHLOROBENZIDINE	Benzene, 1,2-dichloro-	100 (45.4)
3,3'-Dichlorobenzidine	1,3-Dichlorobenzene	100 (45.4)
Dichlorobromomethane	Benzene, 1,2-dichloro-	100 (45.4)
1,4-Dichloro-2-butene *	1,2-Dichlorobenzene	100 (45.4)
Dichlorodifluoromethane *	Benzene, 1,4-dichloro-	100 (45.4)
Dichlorodiphenyl dichloroethane	1,4-Dichlorobutene	100 (45.4)
Dichlorodiphenyl trichloroethane *	(1,1'-Biphenyl)-4,4'-diamine,3,3'-dichloro-	**
1,1-Dichloroethane	2-Butene, 1,4-dichloro-	1 (0.454)
1,2-Dichloroethane	Methane, dichlorodifluoro-	5000 (2270)
	DDO	1 (0.454)
	TDE *	
	4,4' DDD	
	DDT ..	
	4,4' DDT	
	Ethane, 1,1-dichloro-	
	Ethylene dichloride	
	Ethane, 1,2-dichloro-	1000 (454)
	Ethylene dichloride *	5000 (2270)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
1,1-Dichloroethylene.	Ethene, 1,1-dichloro- Vinylene chloride *	5000 (2270)
1,2-trans-Dichloroethylene *	Ethene, trans-1,2-dichloro-	1000 (45.4)
Dichloroethyl ether.	Bis (2-chlorethyl) ether.	1 (0.454)
2,4-Dichlorophenol	Ethane, 1,1'-oxybis(2-chloro-)	100 (45.4)
2,6-Dichlorophenol	Phenol, 2,4-dichloro-	100 (45.4)
2,4-Dichlorophenoxyacetic acid *, salts and esters *	Phenol, 2,6-dichloro-	100 (45.4)
Dichlorophenylarsine	2,4-D Acid...	100 (45.4)
Dichloropropane *	2,4-D *, salts and esters *.	1 (0.454)
1,1-Dichloropropane	Phenyl dichloroarsine *	1000 (454)
1,3-Dichloropropane		1000 (454)
1,2-Dichloropropane	Propylene dichloride *	1000 (454)
Dichloropropane - Dichloropropene (mixture)		100 (45.4)
Dichloropropene *		100 (45.4)
2,3-Dichloropropene	Propene, 1,3-dichloro-	100 (45.4)
1,3-Dichloropropene *		5000 (2270)
2,2-Dichloropropionic acid *		10 (4.54)
Dichlorvos *	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-dimethanophthalene.	1 (0.454)
Dieldrin *	2,2'-Bioxirane	
1,2,3,4-Diepoxybutane		1 (0.454)
Diethylamine *	Arsine, diethyl-	1000 (454)
Diethylarsine	1,4-Dioxane *	1 (0.454)
1,4-Diethylene dioxide	Disulfoton *	1 (0.454)
O,O-Diethyl S-(2-(ethylthio)ethyl) phosphorodithioate.	Hydrazine, 1,2-diethyl-	1 (0.454)
N,N'-Diethylhydrazine	Phosphorodithioic acid, O,O-diethyl S-methyl ester	5000 (2270)
O,O-Diethyl S-methyl dithiophosphate	Phosphoric acid, diethyl p-nitrophenyl ester	100 (45.4)
Diethyl-p-nitrophenyl phosphate	1,2-Benzenedicarboxylic acid, diethyl ester	1000 (454)
Diethyl phthalate	Phosphoro-thioic acid, O,O-diethyl O-pyrazinyl ester	100 (45.4)
O,C-Diethyl O-pyrazinyl phosphorothioate	4,4'-Stilbenediol, alpha,alpha'-diethyl-	1 (0.454)
Diethylstibestrol	Maleic hydrazide...	5000 (2270)
1,2-Dihydro-3,6-pyndazinedione	Benzene, 1,2-methylenedioxy-4-propyl-	1 (0.454)
Dihydrosafrole	Phosphorofluoridic acid, bis(1-methylethyl) ester	100 (45.4)
Diisopropyl fluorophosphate	Phosphorodithioic acid, O,O-dimethyl S-[2(methylamino)-2-oxoethyl] ester	10 (4.54)
Dimethoate	(1,1'-Biphenyl)-4,4'-diamine,3,3'dimethoxy-	1 (0.454)
3,3'-Dimethoxybenzidine	Methanamine, N-methyl-	1000 (454)
Dimethylamine *	Benzaminine, N,N-dimethyl-4-phenylazo-	1 (0.454)
Dimethylaminocarbazone	1,2-Benzanthracene, 7,12-dimethyl-	1 (0.454)
7,12-Dimethylbenz[a]anthracene	(1,1'-Biphenyl)-4,4'-diamine,3,3'dimethyl-	1 (0.454)
3,3'-Dimethylbenzidine	Hydroperoxide, 1-methyl-1-phenylethyl-	10 (4.54)
alpha,alpha-Dimethylbenzylhydroperoxide	Thianox.	100 (45.4)
3,3 Dimethyl-1-(methylthio)-2-butanon, O-[(methylamino)carbonyl] oxime.	Carbamoyl chloride, dimethyl-	1 (0.454)
Dimethylcarbamoyl chloride	Hydrazine, 1,1-dimethyl-	1 (0.454)
1,1-Dimethylhydrazine *	Hydrazine, 1,2-dimethyl-	1 (0.454)
1,2-Dimethylhydrazine	Methyl parathion	100 (45.4)
O,O-Dimethyl O-p-nitrophenyl phosphorodithioate	N-Nitrosodimethylamine	1 (0.454)
Dimethylnitrosamine	Ethanamine, 1,1-dimethyl-2-phenyl-	5000 (2270)
alpha,alpha-Dimethylphenethylamine	Phenol, 2,4-dimethyl-	100 (45.4)
2,4-Dimethylphenol	2,4-Xylenol @	
Dimethyl phthalate	1,2-Benzenedicarboxylic acid, dimethyl ester	5000 (2270)
Dimethyl sulfate *	Sulfuric acid, dimethyl ester	1 (0.454)
Dinitrobenzene *(mixed)		100 (45.4)
m-Dinitrobenzene		100 (45.4)
o-Dinitrobenzene		100 (45.4)
p-Dinitrobenzene		100 (45.4)
4,6-Dinitro- <i>c</i> -cresol and salts..	Phenol, 2,4-dinitro-6-methyl-, and salts	10 (4.54)
4,6-Dinitro- <i>o</i> -cyclohexylphenol *	Phenol, 2-cyclohexyl-4,6-dinitro-	100 (45.4)
Dinitrophenol *		10 (4.54)
2,5-Dinitrophenol		10 (4.54)
2,6-Dinitrophenol		10 (4.54)
2,4-Dinitrophenol *	Phenol, 2,4-dinitro-	10 (4.54)
Dinitrotoluene *		1000 (454)
3,4-Dinitrotoluene		1000 (454)
2,4-Dinitrotoluene *	Benzene, 1-methyl-2,4-dinitro-	1000 (454)
2,6-Dinitrotoluene *	Benzene, 1-methyl-2,6-dinitro-	1000 (454)
Diisobut	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)
DIPHENYLHYDRAZINE		**
1,2-Diphenylhydrazine	Hydrazine, 1,2-diphenyl-	1 (0.454)
Diphosphoramido, octamethyl-	Octamethylpyrophosphoramido	100 (45.4)
Dipyridamine	1-Propanamine, N-propyl-	5000 (2270)
Di-n-propylnitrosamine	N-Nitrosodi-n-propylamine	1 (0.454)
Diquat	O,O-Diethyl S-[2-(ethylthio)ethyl]phosphorodithioate	1 (0.454)
Disulfoton *	Thiomimidodicarbonic diamide	100 (45.4)
2,4-Dithiobutet	Tetraethylthiopyrophosphate	100 (45.4)
Orthopyrophosphoric acid, tetraethyl ester		100 (45.4)
Duron		1000 (454)
Dodecybenzenesulfonic acid *		1000 (454)
Endosulfan *	5-Norbornene-2,3-dimethanol,1,4,5,6,7,7-hexachloro,cyclic sulfite	1 (0.454)
alpha - Endosulfan	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	1 (0.454)
beta - Endosulfan	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-dimethanophthalene.	1 (0.454)
ENDOSULFAN AND METABOLITES		**
Endosulfan sulfate		1 (0.454)
Endothall		1000 (454)
Endrin *		1 (0.454)
Endrin aldehyde		1 (0.454)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
ENDRIN AND METABOLITES		**
Epichlorohydrin *	1-Chloro-2,3-epoxyp propane Oxirane, 2-(chloromethyl)-	1000 (454)
Epinephrine	1,2-Benzenedioyl,4-[1-hydroxy-2-(methylamino)ethyl]	1000 (454)
Ethanal	Acetaldehyde *	1000 (454)
Ethanamine, 1,1-dimethyl-2-phenyl-	alpha,alpha-Dimethylphenethylamine	5000 (2270)
Ethanamine, N-ethyl-N-nitroso-	N-Nitrosodiethylamine	1 (0.454)
Ethane, 1,2-dibromo	Ethylenedibromide *	1000 (454)
Ethane, 1,1-dichloro	Ethylenedichloride	1000 (454)
Ethane, 1,2-dichloro	1,1-Dichloroethane	5000 (2270)
Ethane, 1,1,1,2,2-hexachloro	Ethylenedichloride *	1 (0.454)
Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro-	Hexachloroethane *	1000 (454)
Ethane, 1,1'-oxybis-	Bis(2-chloroethoxy)methane	100 (45.4)
Ethane, 1,1'-oxybis(2-chloro-	Ethyl ether *	1 (0.454)
Ethane, pentachloro	Bis (chloroethyl) ether	1 (0.454)
Ethane, 1,1,1,2-tetrachloro	Dichloroethyl ether	1 (0.454)
Ethane, 1,1,2,2-tetrachloro	Pentachloroethane	1 (0.454)
Ethane, 1,1,2-trichloro	1,1,1,2-Tetrachloroethane *	1 (0.454)
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-	1,1,2,2-Tetrachloroethane *	1 (0.454)
1,2-Ethanediylbiscarbamodithioc acid	1,1,2-Trichloroethane	1 (0.454)
Ethanesulfonic acid	Methoxychlor	1 (0.454)
Ethanesulfonic acid	Ethylenedibis(dithiocarbamic acid)	5000 (2270)
Ethanol, 2,2'-(nitrosoimino)bis-	Acetonitrile *	5000 (2270)
Ethanol, 1-phenyl-	Thioacetamide	1 (0.454)
Ethanoxy chloride	N-Nitrosodimethylamine	1 (0.454)
Ethanimine, N-methyl-N-nitroso-	Acetophenone	5000 (2270)
Ethene chloro-	Acetyl chloride *	5000 (2270)
Ethene, 2-chloroethoxy	N-Nitrosomethylvinylamine	1 (0.454)
Ethene, 1,1-dichloro	Vinyl chloride *	1 (0.454)
Ethene, 1,1,2,2-tetrachloro	2-Chloroethyl vinyl ether	1000 (454)
Ethene, trans-1,2-dichloro	Vinylidene chloride *	5000 (2270)
Ethion *	1,1-Dichloroethylene	1 (0.454)
2-Ethoxyethanol	Perchloroethylene	
Ethyl acetate	Tetrachloroethylene	
Ethyl acrylate *	Tetrachloroethylene	
Ethylbenzene *	1,2-trans-Dichloroethylene *	1000 (454)
Ethyl carbamate (Urethan)	Ethylene glycol monoethyl ether *	10 (4.54)
Ethyl chloride @	Acetic acid, ethyl ester	1 (0.454)
Ethyl cyanide	2-Propenoic acid, ethyl ester	5000 (2270)
Ethyl 4,4'-dichlorobenzilate	Carbamic acid, ethyl ester	1000 (454)
Ethylene dibromide *	Chloroethane	1 (0.454)
Ethylene dichloride *	Propanenitrile	10 (4.54)
Ethylene glycol monoethyl ether *	Benzenecarboxylic acid, 4-chloro-alpha-[4-chlorophenyl]-alpha-hydroxy-, ethyl ester	1 (0.454)
Ethylene oxide *	Ethane, 1,2-dibromo-	1000 (454)
Ethylenedibis(dithiocarbamic acid)	1,2-Dichloroethane	5000 (2270)
Ethylenediamine *	Ethane, 1,2-dichloro-	
Ethylenediamine tetraacetic acid (EDTA)	2-Ethoxyethanol	1 (0.454)
Ethylenethiourea	Oxirane	1 (0.454)
Ethylenimine	1,2-Ethanediylbiscarbamodithioc acid	5000 (2270)
Ethyl ether *	2-Imidazolidinethione	5000 (2270)
Ethylidene dichloride	Azidine	1 (0.454)
Ethyl methacrylate	Ethane, 1,1'-oxybis-	1 (0.454)
Ethyl methanesulfonate	Ethane, 1,1-dichloro-	100 (45.4)
Ethyl methyl ketone @	1,1-Dichloroethane	1000 (454)
Famphur	2-Propenoic acid, 2-methyl-, ethyl ester	1000 (454)
Feric ammonium citrate	Methanesulfonic acid, ethyl ester	1 (0.454)
Feric ammonium oxalate	2-Butanone	5000 (2270)
Feric chloride	Methyl ethyl ketone *	
Feric dextran ***	Phosphorothioic acid, O,O-dimethyl O-[p-[(dimethylamino)sulfonyl] phenyl] ester	1000 (454)
Femic fluoride	Iron dextran ***	1000 (454)
Femic nitrate *		1000 (454)
Femic sulfate		1000 (454)
Ferrous ammonium sulfate		1000 (454)
Ferrous chloride		1000 (454)
Ferrous sulfate		1000 (454)
Fluoranthene	Benzof[<i>j,k</i>]fluorene	100 (45.4)
Fluorene		500 (2270)
Fluorine *	Acetamide, 2-fluoro-	10 (4.54)
Fluoroacetamide	Acetic acid, fluoro-, sodium salt	100 (45.4)
Fluoroacetic acid, sodium salt	Methylene oxide	10 (4.54)
Formaldehyde *	Methanoic acid	1000 (454)
Formic acid *	Mercury fulminate	5000 (2270)
Fulminic acid, mercury(II)salt		10 (4.54)
Fumane acid		5000 (2270)
Furan	Furan	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)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Glycidaldehyde	1-Propanal, 2,3-epoxy-	1 (0.454)
Guandine, N-nitroso-N-methyl-N'-nitro-	N-Methyl N'-nitro-N-nitrosoguanidine	1 (0.454)
Guthion *	Azinphos methyl @	1 (0.454)
HALOETHERS		“
HALOMETHANES	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	1 (0.454)
Heptachlor *		“
HEPTACHLOR AND METABOLITES	Benzene, hexachloro-	1 (0.454)
Heptachlor epoxide	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	1 (0.454)
Hexachlorobenzene		1 (0.454)
Hexachlorbutadiene *		“
HEXACHLOROCYCLOHEXANE (all isomers)	gamma - BHC	1 (0.454)
Hexachlorocyclohexane (gamma isomer) ..	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,dono-dimethanonaphthalene	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene.	1 (0.454)
1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-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,5,8,8a-hexahydro-1,4,5,8-endo,exo-dimethanonaphthalene	Aldrin *	1 (0.454)
Hexachlorophosphorus	2,2'-Methylenebis(3,4,6-trichlorophenol)	100 (45.4)
Hydrazine, 1,2-diethyl	1-Propene, 1,1,2,3,3-hexachloro-	1000 (454)
Hydrazine, 1,1-dimethyl-	Tetraphosphoric acid, hexaethyl ester	100 (45.4)
Hydrazine, 1,2-dimethyl-	Diamine	1 (0.454)
Hydrazine, 1,2-diphenyl-	N,N'-Diethylhydrazine	1 (0.454)
Hydrazine, methyl-	1,1-Dimethylhydrazine *	1 (0.454)
Hydrazinecarbothioamide	1,2-Dimethylhydrazine	1 (0.454)
Hydrochloric acid *	Methyl hydrazine *	10 (4.54)
Hydrocyanic acid *	Thioureas	100 (45.4)
Hydrofluoric acid *	Hydrogen cyanide	100 (45.4)
Hydrogen cyanide *	Hydrogen fluoride	100 (45.4)
Hydrogen fluoride *	Hydrocyanic acid *	10 (4.54)
Hydrogen phosphide	Hydrofluoric acid *	100 (45.4)
Hydrogen sulfide *	Phosphine	100 (45.4)
Hydroperoxide, 1-methyl-1-phenylethyl	Hydrosulfuric acid	100 (45.4)
Hydrosulfuric acid	Sulfur hydride	10 (4.54)
Hydroxymethylarsine oxide	alpha,alpha-Dimethylbenzylhydroperoxide	100 (45.4)
2-imidazolidinethione	Hydrogen sulfide *	100 (45.4)
Indeno[1,2,3-cd]pyrene	Sulfur hydride	1 (0.454)
Iron dextran ***	Cacodylic acid	1 (0.454)
Isobutyl alcohol	Ethylenethiourea	1 (0.454)
Isocyanic acid, methyl ester	1,10-(1,2-Phenylene)pyrene	1 (0.454)
Isophorone	Ferric dextran ***	5000 (2270)
Isoprene *	1-Propanol, 2-methyl-	5000 (2270)
Isopropanolamine dodecylbenzene sulfonate	Methyl isocyanate *	1 (0.454)
Isosafrole		5000 (2270)
3(2H)-Isoazolone, 5-(aminomethyl)	Benzene, 1,2-methylenedioxy-4-propenyl-	1000 (454)
Keltthane	5-(Aminomethyl)-3-isoxazolol	1000 (454)
Kepone	Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one	10 (4.54)
Lasicarpine		1 (0.454)
Lead €	Acetic acid, lead salt	1 (0.454)
Lead acetate		1 (0.454)
LEAD AND COMPOUNDS		5000 (2270)
Lead arsenate		100 (45.4)
Lead chloride *		100 (45.4)
Lead fluoborate *		100 (45.4)
Lead fluoride *		100 (45.4)
Lead iodide		100 (45.4)
Lead nitrate *		100 (45.4)
Lead phosphate	Phosphoric acid, lead salt	5000 (2270)
Lead stearate		1 (0.454)
Lead subacetate		100 (45.4)
Lead sulfate *		5000 (2270)
Lead sulfide		100 (45.4)
Lead thiocyanate	gamma - BHC	1 (0.454)
Lindane *	Hexachlorocyclohexane (gamma isomer) ..	1000 (454)
Lithium chromate		100 (45.4)
Malathion *		5000 (2270)
Maleic acid *	2,5-Furandione	5000 (2270)
Maleic anhydride *	1,2-Dihydro-3,6-pyridazine-dione	1000 (454)
Maleic hydrazide	Propanedinitrile	1 (0.454)
Malononitrile	Alanine, 3-(p-bis(2-chlorethyl)amino)phenyl-L-	10 (4.54)
Melphanan		1 (0.154)
Mercaptodimethylur		10 (4.54)
Mercurocyanide *		10 (4.54)
Mercuro nitrate *		10 (4.54)
Mercuro sulfate *		10 (4.54)
Mercuro thiocyanate		10 (4.54)
Mercuro nitrate *		10 (4.54)
Mercury *		1 (0.454)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
MERCURY AND COMPOUNDS.		..
Mercury, (acetato-O-phenyl)-	Phenylmercuric acetate	100 (45.4)
Mercury fulminate	Fulminate acid, mercury(II)salt	10 (4.54)
Methacrylonitrile	2-Propenenitrile, 2-methyl-	1000 (454)
Methanamine, N-methyl-	Dimethylamine *	1000 (454)
Methane, bromo-	Methyl bromide *	1000 (454)
Methane, chloro-	Methyl chloride *	1000 (454)
Methane, chloromethoxy-	Chloromethyl methyl ether	1 (0.454)
Methane, dibromo-	Methylchloromethyl ether @	1 (0.454)
Methane, dichloro-	Methylene bromide	1000 (454)
Methane, dichlorodifluoro-	Methylene chloride *	1000 (454)
Methane, iodo-	Dichlorodifluoromethane *	5000 (2270)
Methane, oxybis(chloro-	Methyl iodide	1 (0.454)
Methane, tetrachloro-	Bis(chloromethyl) ether	1 (0.454)
Methane, tetrabromo-	Carbon tetrachloride *	5000 (2270)
Methane, tetrachloro-	Tetranitromethane *	10 (4.54)
Methane, tetrakroto-	Bromotform	100 (45.4)
Methane, tribromo-	Chloroform *	5000 (2270)
Methane, trichloro-	Trichloromonofluoromethane	5000 (2270)
Methane, trichlorofluoro-	Perchloromethyl mercaptan @	100 (45.4)
Methanesulfenyl chloride, trichloro-	Trichloromethanesulfenyl chloride	100 (45.4)
Methanesulfonic acid, ethyl ester	Ethyl methanesulfonate	1 (0.454)
Methanethiol	Methyl mercaptan *	100 (45.4)
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-	Thiomethanol	1 (0.454)
Methanoic acid	Heptachlor *	5000 (2270)
4,7-Methanonanand, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-	Formic acid *	1 (0.454)
Methanol *	Chlordane *	5000 (2270)
Methapylene	Chlordane, technical *	1 (0.454)
Methanol	Methyl alcohol *	5000 (2270)
Methoxychlor	Pyndine, 2-[2-(dimethylamino)ethyl]-2-thenylamino]-	5000 (2270)
Methyl alcohol *	Acetimide acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester	100 (45.4)
Methyamine @	Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-	1 (0.454)
2-Methylaziridine	Methanol *	5000 (2270)
Methyl bromide *	Monooethylamine *	100 (45.4)
1-Methylbutadiene	1,2-Propylenimine	1 (0.454)
Methyl chloride *	Methane, bromo-	1000 (454)
Methyl chlorocarbonate	1,3-Pentadiene	100 (45.4)
Methyl chloroform *	Methane, chloro-	1 (0.454)
Methylchloromethyl ether @	Carbonochloridic acid, methyl ester	1000 (454)
3-Methylcholanthrene	1,1,1-Trichloroethane *	1000 (454)
4,4'-Methylenebis(2-chloroaniline)	Chloromethyl methyl ether	1 (0.454)
2,2'-Methylenebis[3,4,6-Inchlorophenol]	Methane, chloromethoxy-	1 (0.454)
Methylene bromide	Benzyl[jaceanthylene, 1,2-dihydro-3-methyl-	1 (0.454)
Methylene chloride *	Benzenamine, 4,4'-methylenabis(2-chloro-	1 (0.454)
Methylene oxide	Hexachlorophene	100 (45.4)
Methyl ethyl ketone *	Methane, dibromo-	1000 (454)
Methyl ethyl ketone peroxide *	Methane, dichloro-	1000 (454)
Methyl hydrazine *	Formaldehyde *	1000 (454)
Methyl iodide	2-Butanone..	5000 (2270)
Methyl isobutyl ketone	Ethyl methyl ketone @	10 (4.54)
Methyl isocyante *	2-Butanone peroxide	10 (4.54)
2-Methylactonitrile	Hydrazine, methyl-	1 (0.454)
Methyl mercaptan *	Methane, iodo-	1 (0.454)
Methyl methacrylate *	4-Methyl-2-pentanone	5000 (2270)
N-Methyl-N'-nitro-N-nitrosoguanidine	Isocyanic acid, methyl ester	1 (0.454)
Methyl parathion *	Acetone cyanohydrin *	10 (4.54)
4-Methyl-2-pentanone	Propanenitrile, 2-hydroxy-2-methyl-	10 (4.54)
Methylthioureas	Methanethiol	100 (45.4)
Metaphosph	Thiomethanol	100 (45.4)
Maxacarbate *	2-Propenoic acid, 2-methyl-, methyl ester	1000 (454)
Mitomycin C	Guardine, N-nitroso-N-methyl-N-nitro-	1 (0.454)
Monooethylamine *	O,O-Dimethyl O-p-nitrophenyl phosphorothioate	100 (45.4)
Monomethylamine	Methyl isobutyl ketone	5000 (2270)
5,12-Naphthacenedione, (8S-cis)-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-	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	1 (0.454)
Naphthalene *	Azirino(2',3',4,5)pyrrolo(1,2-a)indole-4,7-dione,6-amino-8-[(ammoncarbonyl)oxy]-	10 (4.54)
Naphthalene, 2-chloro-	methyl-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-	1 (0.454)
1,4-Naphthalenedione	Methyamine @	100 (45.4)
2,7-Naphthalenedisulfonic acid, 3,3'-(3,3'-dimethyl-1,1'-biphenyl)-4,4'-diyl-bis(azo)bis(5-amino-4-hydroxy)-tetrasodium salt.	Daunomycin	100 (45.4)
Naphthene acid	beta-Chloronaphthalene ..	100 (45.4)
1,4-Naphthoquinone	2-Chloronaphthalene ..	5000 (2270)
alpha-Naphthylamine	1,4-Naphthoquinone ..	1 (0.454)
beta-Naphthylamine	Trypan blue ..	1 (0.454)
2-Naphthylamine, N,N-bis(2-chloroethyl)-	1,4-Naphthalenedione	100 (45.4)
1-Naphthylamine	1-Naphthylamine	5000 (2270)
2-Naphthylamine	2-Naphthylamine ..	1 (0.454)
alpha-Naphthythiourea	Chloronaphazine	1 (0.454)
Nickel t.	alpha-Naphthylamine ..	1 (0.454)
Nickel ammonium sulfate	beta-Naphthylamine ..	1 (0.454)
NICKEL AND COMPOUNDS.	Thiourea, 1-naphthalenyl-	100 (45.4)
Nickel carbonyl	Nickel tetracarbonyl ..	1 (0.454)
Nickel chloride		5000 (2270) ..
		1 (0.454)
		5000 (2270)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)	
Nickel cyanide *	Nickel(II) cyanide	1 (0.454)	
Nickel(III) 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 *	Nitrogen(II) oxide	1000 (454)	
Nitric oxide *	Benzanamine, 4-nitro-	10 (4.54)	
p-Nitroaniline *	Benzene, nitro-	5000 (2270)	
Nitrobenzene *	Nitrogen(IV) oxide	10 (4.54)	
Nitrogen dioxide *	Nitric oxide *	10 (4.54)	
Nitrogen(II) oxide	Nitrogen dioxide *	10 (4.54)	
Nitrogen(V) oxide	1,2,3-Propanetriol, trinitrate-	10 (4.54)	
Nitroglycerine *		100 (45.4)	
Nitrophenol * (mixed)	2-Nitrophenol	100 (45.4)	
m-Nitrophenol	Phenol, 4-nitro-	100 (45.4)	
o-Nitrophenol	4-Nitrophenol	100 (45.4)	
p-Nitrophenol	2-Nitrophenol *	100 (45.4)	
o-Nitrophenol *	Phenol, 4-nitro-	100 (45.4)	
p-Nitrophenol *	4-Nitrophenol *	100 (45.4)	
2-Nitrophenol *	o-Nitrophenol *	100 (45.4)	
4-Nitrophenol *	p-Nitrophenol *	100 (45.4)	
NITROPHENOLS	Phenol, 4-nitro-	**	
2-Nitropropane	Propane, 2-nitro-	1 (0.454)	
NITROSAMINES		**	
N-Nitrosodi-n-butylamine	1-Butanamine, N-butyl-N-nitroso-	1 (0.454)	
N-Nitrosodiethanolamine	Ethanol, 2,2'-(nitrosoimino)bis-	1 (0.454)	
N-Nitrosodiethylamine	Ethanamine, N-ethyl-N-nitroso-	1 (0.454)	
N-Nitrosodimethylamine	Dimethylnitrosamine	100 (45.4)	
N-Nitrosodiphenylamine	Di-n-propylnitrosamine	1 (0.454)	
N-Nitrosodi-n-propylamine	Carbamide, N-ethyl-N-nitroso-	1 (0.454)	
N-Nitroso-N-ethylurea	Carbamide, N-methyl-N-nitroso-	1 (0.454)	
N-Nitroso-N-methylurea	Carbamic acid, methylnitroso-, ethyl ester	1 (0.454)	
N-Nitroso-N-methylurethane	Ethanamine, N-methyl-N-nitroso-	1 (0.454)	
N-Nitrosomethylalkyl amine	Pyridine, hexahydro-N-nitroso-	1 (0.454)	
N-Nitrosopiperidine	Pyrrole, tetrahydro-N-nitroso-	1 (0.454)	
N-Nitrosopyrrolidine		1000 (454)	
Nitrotoluene *			
m-Nitrotoluene			
o-Nitrotoluene			
p-Nitrotoluene			
5-Nitro-o-tolidine	Benzanamine, 2-methyl-5-nitro-	1 (0.454)	
5-Norbornene, 2,3-dimethyl, 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	Endothall	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)	
Performaldehyde *	1-Chloro-2,3-epoxypropane	1000 (454)	
Paraldehyde *		1000 (454)	
Parathion *	1,3,5-Trioxane, 2,4,6-trimethyl-	1 (0.454)	
Pentachlorobenzene	Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl)ester	10 (4.54)	
Pentachloroethane	Benzene, pentachloro-	1 (0.454)	
Pentachloronitrobenzene	Ethane, pentachloro-	1 (0.454)	
Pentachlorophenol	Benzene, pentachloronitro-	1 (0.454)	
1,3-Pentadiene	Phenol, pentachloro-	10 (4.54)	
Perchloroethylene *	1-Methylbutadiene	100 (45.4)	
Perchloromethyl mercaptoanilin @	Ethene, 1,1,2,2-tetrachloro-	1 (0.454)	
Phenacetin	Tetrachloroethene	100 (45.4)	
Phenanthrene	Tetrachloroethylene *	1 (0.454)	
Phenoil *	Methanesulfenyl chloride, trichloro-	5000 (2270)	
Phenol, 4-chloro-3-methyl-	Trichloromethanesulfenyl chloride	1000 (45.4)	
Phenol, 2-chloro-	Acetamide, N-(4-ethoxyphenyl)-	5000 (2270)	
Phenol, 2-cyclohexyl-4,6-dinitro-	Benzene, hydroxy-	100 (45.4)	
Phenol, 2,4-dichloro-	p-Chloro-m-cresol	10 (4.54)	
Phenol, 2,6-dichloro-	4-Chloro-m-cresol	10 (4.54)	
Phenol, 2,4-dimethyl-	o-Chlorophenol	100 (45.4)	
Phenol, 2,4-dinitro-6-(1-methylpropyl)-	2-Chlorophenol	100 (45.4)	
Phenol, 2,4-dinitro-6-methyl- and salts	4,6-Dinitro-o-cyclohexylphenol *	100 (45.4)	
Phenol, 2,4-dinitro-	2,4-Dichlorophenol	100 (45.4)	
Phenol, 4-nitro-	2,6-Dichlorophenol	100 (45.4)	
Phenol, pentachloro-	2,4-Dimethylphenol	100 (45.4)	
Phenol, 2,3,4,6-tetrachloro-	2,4-Xylenol @	1000 (454)	
Phenol, 2,4,5-trichloro-	Diisobut	10 (4.54)	
Phenol, 2,4,6-trichloro-	4,6-Dinitro-o-cresol and salts	10 (4.54)	
Phenol, 2,4,6-trinitro-	2,4-Dinitrophenol *	100 (45.4)	
Phenol, 2,4,6-trinitro- o, ammonium salt	p-Nitrophenol *	4-Nitrophenol *	10 (4.54)
	Pentachlorophenol *	10 (4.54)	
	2,3,4,6-Tetrachlorophenol *	10 (4.54)	
	2,4,5-Trichlorophenol *	10 (4.54)	
	2,4,6-Trichlorophenol *	10 (4.54)	
	Ammonium picrate *	10 (4.54)	

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Phenyl dichloroarsine *	Dichlorophenylarsine	1 (0.454)
1,10-(1,2-Phenylenepyrene	Indeno[1,2,3-cd]pyrene	1 (0.454)
Phenyl mercaptan @	Benzeneethiol	100 (45.4)
Phenylmercuric acetate	Thiophenol *	
N-Phenythiourea	Mercury, (acetato-O-phenyl)-	100 (45.4)
Phorate	Thiourea, phenyl-	100 (45.4)
Phosgene *	Phosphorodithioic acid, O,O-diethyl S-(ethylthio), methylester	10 (4.54)
Phosphine *	Carbonyl chloride	10 (4.54)
Phosphoric acid *	Hydrogen phosphide	100 (45.4)
Phosphoric acid, diethyl p-nitrophenyl ester	Diethyl-p-nitrophenyl phosphate	5000 (2270)
Phosphoric acid, lead salt	Lead phosphate	100 (45.4)
Phosphorodithioc acid, O,O-diethyl S-(ethylthio), methyl ester	Phorate	1 (0.454)
Phosphorodithioc acid, O,O-diethyl S-methyl ester	O,O-Diethyl S-methyl dithiophosphate	10 (4.54)
Phosphorodithioc acid, O,O-dimethyl S-[2 (methylamino)-2 oxethyl] ester	Dimeliothane	5000 (2270)
Phosphorofluonic acid, bis(1-methylethyl) ester	Diisopropyl fluorophosphate	10 (4.54)
Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester	Parathion *	1 (0.454)
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	O,O-Diethyl O-pyrazinyl phosphorothioate	100 (45.4)
Phosphorothioic acid, O,O-dimethyl O-[p-(dimethylamino)-sulfonyl] phenyl ester	Famphur	1000 (454)
Phosphorus *		1 (0.454)
Phosphorus oxychloride *	Phosphorus sulfide	1000 (454)
Phosphorus pentasulfide *	Sulfur phosphide	100 (45.4)
Phosphorus sulfide	Phosphorus pentasulfide *	100 (45.4)
Phosphorus trichloride *	Sulfur phosphide	100 (45.4)
PHTHALATE ESTERS		1000 (454)
Phthalic anhydride	1,2-Benzenedicarboxylic acid anhydride	**
2-Picoline	Pyridine, 2-methyl-	5000 (2270)
Plumbane, tetraethyl-	Tetraethyl lead *	5000 (2270)
POLYCHLORINATED BIPHENYLS (PCBs) *	POLYCHLORINATED BIPHENYLS (PCBs)	10 (4.54)
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)
POLYNUCLEAR AROMATIC HYDROCARBONS	POLYCHLORINATED BIPHENYLS (PCBs)	**
Potassium arsenite *		1000 (454)
Potassium arsenite *		1000 (454)
Potassium bichromate	Potassium dichromate @	1000 (454)
Potassium chromate		1000 (454)
Potassium cyanide *	Potassium bichromate	10 (4.54)
Potassium dichromate @		1000 (454)
Potassium hydroxide *		1000 (454)
Potassium permanganate *		100 (45.4)
Potassium silver cyanide	3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide	1000 (454)
Pronamide	Glycidylaldehyde	5000 (2270)
1-Propanal, 2,3-epoxy-	Aldicarb	1 (0.454)
Propanal, 2-methyl-2-(methylthio)-O-[(methylamino)carbonyl]oxime	n-Propylamine *	5000 (2270)
1-Propanamine	Dipropylamine	5000 (2270)
1-Propanamine, N-propyl-	1,2-Dibromo-3-chloropropane	10 (4.54)
Propane, 1,2-dibromo-3-chloro-	2-Nitropropane	1 (0.454)
Propane, 2-nitro-	Bis(2-chloroisopropyl) ether	1000 (454)
Propane, 2,2'-oxybis(2-chloro-	1,2-Oxathiolane, 2,2-dioxide	1 (0.454)
1,3-Propane sultone	Malononitrile	1000 (454)
Propanedinitrile	Ethyl cyanide	10 (4.54)
Propanenitrile	3-Chloropropionitrile	1000 (454)
Propanenitrile, 3-chloro-	Acetone cyanohydrin *	10 (4.54)
Propanenitrile, 2-hydroxy-2-methyl-	2-Methylacetonitrile	10 (4.54)
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-	Bromacetone *	1000 (454)
Propargite	2-Propyn-1-ol	10 (4.54)
Propargyl alcohol *	Acrolein *	1000 (454)
2-Propenal	Acrylamide	1 (0.454)
2-Propenamide	1,3-Dichloropropene *	5000 (2270)
Propene, 1,3-dichloro-	Hexachloropropene	100 (45.4)
1-Propane, 1,1,2,3,3-hexachloro-	Acrylonitrile *	1000 (454)
2-Propenenitrile	Methacrylonitrile	100 (45.4)
2-Propenenitrile, 2-methyl-	Acrylic acid	5000 (2270)
2-Propenoic acid	Ethyl acrylate *	1000 (454)
2-Propenoic acid, ethyl ester	Ethyl methacrylate	1000 (454)
2-Propenoic acid, 2-methyl-, ethyl ester	Methyl methacrylate *	1000 (454)
2-Propenoic acid, 2-methyl-, methyl ester	Allyl alcohol *	100 (45.4)
2-Propan-1-ol	Silver	5000 (2270)
Propionic acid *	2,4,5-TP @	100 (45.4)
Propionic acid, 2-(4,5-irichlorophenoxy)-	2,4,5-TP acid	
Propionic anhydride	1-Propanamine	5000 (2270)
n-Propylamine *	1,2-Dichloropropane	5000 (2270)
Propylene dichloride *	2-Methylaziridine	100 (45.4)
Propylene oxide *	Propargyl alcohol *	1 (0.454)
1,2-Propylenimine *		1000 (454)
2-Propyn-1-ol	Pyrene	5000 (2270)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (RQ) Pounds(Kilograms)
Pyrethrins		1 (0.454)
4-Pyridamine		1000 (454)
Pyridine *		1000 (454)
Pyridine, 2-[(2-(dimethylamino)ethyl)-2-thenylamino]-		5000 (2270)
Pyridine, hexahydro-N-nitroso		1 (0.454)
Pyridine, 2-methyl-		5000 (2270)
Pyridine, (S)-3 (1-methyl-2-pyrrolidinyl)-, and salts		100 (45.4)
4(1H)-Pyrimidone, 2,3-dihydro-6-methyl-2-thioxo-		1 (0.454)
Pyrophosphoric acid, tetraethyl ester		10 (4.54)
Pyrrole, tetrahydro-N-nitroso-		1 (0.454)
Quinoline		5000 (2270)
RADIONUCLIDES ***		1 (0.454)
Reserpine		5000 (2270)
Resorcinol *		5000 (2270)
Saccharin and salts		1 (0.454)
Safrole		1 (0.454)
Selenious acid		10 (4.54)
Selenium †		100 (45.4)
SELENIUM AND COMPOUNDS		
Selenium dioxide	Selenium oxide *	10 (4.54)
Selenium disulfide	Sulfur selenide	1 (0.454)
Selenium oxide *	Selenium dioxide	10 (4.54)
Selenourea	Carbamimidoseleńic acid	1000 (454)
L-Serine, diazoacetate (ester)	Azaserine	1 (0.454)
Silver ‡		1000 (454)
SILVER AND COMPOUNDS		
Silver cyanide *		1 (0.454)
Silver nitrate *		1 (0.454)
Silver oxide		100 (45.4)
Sodium		
Sodium arsenate		10 (4.54)
Sodium arsenite		1000 (454)
Sodium azide *		1000 (454)
Sodium bichromate		1000 (454)
Sodium bifluoride *		100 (45.4)
Sodium bisulfite		5000 (2270)
Sodium chromate		1000 (454)
Sodium cyanide *		10 (4.54)
Sodium dichromate @	Sodium dichromate @	1000 (454)
Sodium dodecybenzene 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 *		1000 (454)
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		100 (45.4)
Sulfur monochloride		1000 (454)
Sulfur phosphide		100 (45.4)
Sulfur selenide	Phosphorus pentasulfide *	1 (0.454)
Sulfuric acid	Phosphorus sulfide	1000 (454)
Sulfuric acid, dimethyl ester	Selenium disulfide	1 (0.454)
Sulfuric acid, thallium(I) salt	Dimethyl sulfate *	1 (0.454)
2,4,5-T acid	Thallium(I) sulfate *	100 (45.4)
2,4,5-T amine *	2,4,5-T *	1000 (454)
2,4,5-T esters *	2,4,5-T acid	5000 (2270)
2,4,5-T salts *	2,4,5-Trichlorophenoxyacetic acid *	1000 (454)
2,4,5-T *	DDD	1000 (454)
TDE *	Dichlorodiphenyl dichloroethane	1000 (454)
	4,4'-DDD	1 (0.454)
1,2,4,5-Tetrachlorobenzene	Benzene, 1,2,4,5-tetrachloro-	5000 (2270)
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	Ethane, 1,1,1,2-tetrachloro-	1 (0.454)
1,1,1,2-Tetrachloroethane *	Ethane, 1,1,2,2-tetrachloro-	1 (0.454)
1,1,2,2-Tetrachloroethane *	Ethene, 1,1,2,2-tetrachloro-	1 (0.454)
Tetrachloroethene	Perchloroethylene *	
Tetrachloroethylene *	Tetrachloroethylene *	1 (0.454)
2,3,4,6-Tetrachlorophenol	Ethene, 1,1,2,2-tetrachloro-	10 (4.54)
Tetraethyl lead *	Perchloroethylene *	10 (4.54)
	Tetrachloroethene...	
	Phenol, 2,3,4,6-tetrachloro-	
	Plumbane, tetraethyl*	

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Tetraethyl pyrophosphate *	Pyrophosphoric acid, tetraethyl ester	10 (4.54)
Tetraethylthiopyrophosphate	Dithiopyrophosphoric acid, tetraethyl ester	100 (45.4)
Tetrahydrofuran *	Furan, tetrahydro-	1000 (454)
Tetranitromethane *	Methane, tetrano-	10 (4.54)
Tetraphosphoric acid, hexaethyl ester	Hexaethyl tetraphosphate *	100 (45.4)
Thallic oxide	Thallium(III) oxide	100 (45.4)
Thallium t.		1000 (454)
THALLIUM AND COMPOUNDS		**
Thallium(I) acetate	Acetic acid, thallium(I) salt	100 (45.4)
Thallium(I) carbonate	Carbonic acid, orthothallium (I) salt	100 (45.4)
Thallium(I) chloride		100 (45.4)
Thallium(I) nitrate		100 (45.4)
Thallium(II) oxide	Thallic oxide	100 (45.4)
Thallium(I) selenide	Sulfuric acid, thallium(I) salt	1000 (454)
Thallium(I) sulfate *	Ethanethioamide	1 (0.454)
Thiopacetamide	3,3-Dimethyl-1-(methylthio)-2-butanone,O-[(methylamino)carbonyl] oxime	100 (45.4)
Thiofanox	2,4-Dithiobiuret	100 (45.4)
Thiomodidicarbonic diamide	Methanethiol	100 (45.4)
Thiomethanol	Methyl mercaptan *	
Thiophenol *	Benzeneethiol	100 (45.4)
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-Phenyliourea	100 (45.4)
Toluene *	Bis(dimethylthiocarbamoyl) disulfide	10 (4.54)
Toluene	Benzene, methyl-	1000 (454)
Toluene-2,4-diamine	2,4-Diaminotoluene	1 (0.454)
2,4-Toluenediamine *	2,4-Toluenediamine *	
Toluene diisocyanate *	Toluene-2,4-diamine	1 (0.454)
o-Tolidine hydrochloride	2,4-Diaminotoluene	
o-Tolidine	Benzene, 2,4-disiocyanatoethyl-	100 (45.4)
p-Tolidine	Benzanamine, 2-methyl-, hydrochloride	1 (0.454)
Toxaphene *	2-Amino-1-methyl benzene	1 (0.454)
2,4,5-TP @	4-Amino-1-methyl benzene	1 (0.454)
2,4,5-TP acid esters	Camphepane, octachloro-	1 (0.454)
2,4,5-TP acid	Propionic acid, 2-(2,4,5-trichlorophenoxy)-	100 (45.4)
	Silvex	
2,4,5-TP ester @	2,4,5-TP acid	
1H-1,2,4-Triazol-3-amino	2,4,5-TP ester @	100 (45.4)
Trichlorfon	Propionic acid, 2-(2,4,5-trichlorophenoxy)	100 (45.4)
1,2,4-Trichlorobenzene	Silvex	
1,1,1-Trichloroethane	2,4,5-TP @	
1,1,2-Trichloroethane	2,4,5-TP acid esters	100 (45.4)
Trichloroethene	Amitrole	100 (45.4)
Trichloroethylene *	Methyl chloroform *	100 (45.4)
Trichloromethanesulfenyl chloride	Ethane, 1,1,2-trichloro-	1000 (454)
Trichloromonofluoromethane	Trichloroethylene *	1 (0.454)
Trichlorophenol *	Trichloroethene	1000 (454)
2,3,4-Trichlorophenol	Methanesulfenyl chloride, trichloro-	100 (45.4)
2,3,5-Trichlorophenol	Perchloromethyl mercaptan @	
2,3,6-Trichlorophenol	Methane, trichlorofluoro-	5000 (2270)
Phenol, 2,4,5-trichloro-	2,4,5-Trichlorophenol	10 (4.54)
Phenol, 2,4,6-trichloro-	2,4,6-Trichlorophenol	10 (4.54)
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)
Triethanolamine dodecylbenzene sulfonate	2,4,5-T acid	
Triethylamine		1000 (454)
Trimethylamine *	Benzene, 1,3,5-trinitro-	5000 (2270)
sym-Tnitrotoluene *	Paraldehyde	100 (45.4)
1,3,5-Tinoxane, 2,4,6-trimethyl-	1-Propanol, 2,3-dibromo-, phosphate (3:1)	10 (4.54)
Tris(2,4-dibromopropyl) phosphate	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-[1,1'-biphenyl]-4,4'-diyl)-bis(azo)]bis(5-amino-4-hydroxy)-tetrasodium salt	1000 (454)
Trypan blue		1 (0.454)
Unlisted Hazardous Wastes Characteristic of Corrosivity		1 (0.454)
Unlisted Hazardous Wastes Characteristic of EP Toxicity		100 (45.4)
Arsenic D004		1 (0.454)
Banum 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		1 (0.454)
Lindane D013		1 (0.454)
Methoxychlor D014		1 (0.454)
Toxaphene D015		1 (0.454)
2,4-D D016		100 (45.4)
2,4,5-TP D017		100 (45.4)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
Unlisted Hazardous Wastes Characteristic of Ignitability.....		100 (45.4)
Unlisted Hazardous Wastes Characteristic of Reactivity.....		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 peroxide *.....	1000 (454)
Vanadium pentoxide *.....	Vanadium(V) oxide.....	1000 (464)
Vanadyl sulfate.....		5000 (2270)
Vinyl acetate *.....	Ethene, chloro.....	1 (0.454)
Vinyl chloride *.....	Ethene, 1,1-dichloro-.....	\$1000 (2270)
Vinyldene chloride *.....	1,1-Dichloroethylene.....	
Warfarin.....	3-(alpha-Acetylbenzyl)-4-hydroxycoumarin and salts.....	100 (45.4)
Xylene * (mixed).....	Benzene, dimethyl.....	1000 (454)
m-Benzene, dimethyl.....	m-Xylene.....	
o-Benzene, dimethyl.....	o-Xylene.....	
p-Benzene, dimethyl.....	p-Xylene.....	
Xylenol *.....	2,4-Dimethylphenol.....	1000 (454)
2,4-Xylenol @.....	Phenol, 2,4-dimethyl-.....	100 (45.4)
Yohimbane-16-carboxylic acid,11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy], methyl ester.....	Reserpine.....	5000 (2270)
Zinc *.....		1000 (454)
ZINC AND COMPOUNDS.....		**
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 *.....		5000 (2270)
Zinc phenolsulfonate.....		100 (45.4)
Zinc phosphide *.....		5000 (2270)
Zinc silicofluoride.....		1000 (454)
Zinc sulfate.....		5000 (2270)
Zirconium nitrate *.....		1000 (454)
Zirconium potassium fluoride.....		5000 (2270)
Zirconium sulfate *.....		5000 (2270)
Zirconium tetrachloride *.....		1 (0.454)
F001		
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)
		1 (0.454)
F002		
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)
		100 (45.4)
F003		
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) Cyclonexanone.....		5000 (2270)
(i) Methanol.....		1000 (454)
F004		
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents: (a) Cresols/Cresylic acid (b) Nitrobenzene.		
F005		
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents: (a) Toluene (b) Methyl ethyl ketone (c) Carbon disulfide (d) Isobutanol (e) Pyridine.		
F006		
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 carbonsteel, (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		100 (45.4)
		1 (0.454)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
F007.....Spent cyanide plating bath solutions from electroplating operations.		10 (4.54)
F008.....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).		10 (4.54)
F009.....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).		10 (4.54)
F010.....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).		10 (4.54)
F011.....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).		10 (4.54)
F012.....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).		10 (4.54)
F019.....Wastewater treatment sludges from the chemical conversion coating of aluminum.		1 (0.454)
F020.....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 trichlorophenol, 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.)		1 (0.454)
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 dessicants(sic), wastewater, wastewater treatment sludges, spent catalysts, and wastes listed in Section 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)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
K010.....		1 (0.454)
Distillation side cuts from the production of acetaldehyde from ethylene.		
K011.....		1 (0.454)
Bottom stream from the wastewater stripper in the production of acrylonitrile.		
K013.....		1 (0.454)
Bottom stream from the acetonitrile column in the production of acrylonitrile.		
K014.....		5000 (2270)
Bottoms from the acetonitrile purification column in the production of acrylonitrile.		
K015.....		1 (0.454)
Still bottoms from the distillation of benzyl chloride.		
K016.....		1 (0.454)
Heavy ends or distillation residues from the production of carbon tetrachloride.		
K017.....		1 (0.454)
Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.		
K018.....		1 (0.454)
Heavy ends from the fractionation column in ethyl chloride production.		
K019.....		1 (0.454)
Heavy ends from the distillation of ethylene dichloride/methylene dichloride production.		
K020.....		1 (0.454)
Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.		
K021.....		1 (0.454)
Aqueous spent antimony catalyst waste from fluoromethanes production.		
K022.....		5000 (2270)
Distillation bottom tars from the production of phenol/acetone from cumene.		
K023.....		5000 (2270)
Distillation light ends from the production of phthalic anhydride from naphthalene.		
K024.....		1 (0.454)
Distillation bottoms from the production of phthalic anhydride from naphthalene.		
K025.....		
Distillation bottoms from the production of nitrobenzene by the nitration of benzene.		1000 (454)
K026.....		
Stripping still tails from the production of methyl ethyl pyridines.		1 (0.454)
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)
.29.....		
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)
047.....		
Water from TNT operations.		1 (0.454)
+8.....		
Solvent air flotation (DAF) float from the petroleum refining industry.		1 (0.454)
K049.....		
Slop oil emulsion solids from the petroleum refining industry.		

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity (Pounds/Kilograms)
K050 Heat exchanger bundle cleaning sludge from the petroleum refining industry.		1 (0.454)
K051 API separator sludge from the petroleum refining industry.		1 (0.454)
K052 Tank bottoms (leaded) from the petroleum refining industry.		10 (4.54)
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 purified 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.		1 (0.454)
K083 Distillation bottoms from aniline extraction.		100 (45.4)
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)
K086 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.		1 (0.454)
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.		100 (45.4)
K103 Process residues from aniline extraction from the production of aniline.		1 (0.454)
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 wastewaters 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 Vapors 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 toluenediamine via phosgenation of toluenediamine.		1 (0.454)

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	Synonyms	Reportable Quantity(RQ) Pounds(Kilograms)
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:

- indicates that the RQ is subject to change when the assessment of potential carcinogenicity and/or chronic toxicity is complete.
 * - no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 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 no RQ is being assigned to the generic or broad class.
 *** - Iron dextran was designated as a hazardous substance under CERCLA solely because of its listing as a hazardous waste under Section 3001 of RCRA. The Agency [EPA] recently proposed to delist iron dextran under RCRA (50 FR 46468-46470, November 8, 1985). The Agency has also proposed to delist iron dextran from Table 302.4 of 40 CFR 302.4 and thereby remove its designation as a CERCLA hazardous substance.
 @ - 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.

BILLING CODE 4910-80-T

9. In § 172.102, paragraph (e) is revised to read as follows:

§ 172.102 Purpose and use of Optional Hazardous Materials Table for international shipments.

* * * * *

(e) If a hazardous material that is a hazardous substance is offered, accepted or transported under an acceptable shipping name from the Optional Table that does not contain the name of the hazardous substance, the name of the hazardous substance must be entered, in parentheses, in association with the proper shipping name. For waste streams or for wastes which exhibit an EPA characteristic of ignitability, corrosivity, reactivity or EP toxicity the basic description must be followed by the waste stream number in parentheses or by the letters "EPA" and the word "ignitability", or "corrosivity", or "reactivity", or "EP toxicity", in parentheses, as appropriate. These requirements also apply when descriptions from the Optional Table in § 172.102 are used.

(2) The letters "RQ" must 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, liquid, n.o.s., ORM-E, NA 9188 (Adipic Acid), RQ".

* * * * *

11. § 172.324 is revised to read as follows:

§ 172.324 Hazardous substances.

(a) Except as provided in paragraph (b) of this section, if the proper shipping name for a mixture or solution that is a hazardous substance does not identify the constituents making it a hazardous

substance, the name or names of such hazardous substance constituents as shown in the Appendix to § 172.101 must be marked in parentheses in association with the proper shipping name on each packaging having a capacity of 110 gallons or less. This requirement also applies when descriptions from the Optional Table in § 172.102 are used.

(b) Those packages with a capacity of 110 gallons or less which contain waste streams or wastes which exhibit an EPA characteristic of ignitability, corrosivity, reactivity, or EP toxicity, must be marked in parentheses in association with the proper shipping name with the applicable waste stream number or the letters "EPA" and the word "ignitability", or "corrosivity", or "reactivity", or "EP toxicity" as appropriate.

(c) The letters RQ must be displayed in association with the proper shipping name on a packaging having a capacity of 110 gallons or less that contains a hazardous substance.

Issued in Washington, DC on November 17, 1986 under authority delegated in 49 CFR 1.53.

M. Cynthia Douglass,

Administrator, Research and Special Programs Administration.

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BILLING CODE 4910-80-M

10. In § 172.203, paragraph (c) is revised to read as follows:

§ 172.203 Additional description requirements.

* * * * *

(c) *Hazardous substances.* (1) If the proper shipping name for a mixture or solution that is a hazardous substance does not identify the constituents