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Listing of Hazardous Materials

**DEPARTMENT OF TRANSPORTATION
Research and Special Programs
Administration**

49 CFR Part 172

[Docket No. HM-145C Amdt. No. 172-66]

Listing of Hazardous Materials

March 10, 1981

AGENCY: Materials Transportation Bureau (MTB), Research and Special Programs Administration, Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: This rule amends the Hazardous Materials Regulations to include materials that have been determined by EPA to be "hazardous substances," as that term is defined in the comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), also known as the "Superfund" Act. Section 306(a) of that Act requires that each hazardous substance which is listed or designated as such shall, within 90 days after the date of enactment of the Act, be listed as a hazardous material under the Hazardous Materials Transportation Act. The effect of this rule is to initiate coordination of the MTB hazardous materials program with the implementation of CERCLA.

EFFECTIVE DATE: July 1, 1981.

FOR FURTHER INFORMATION CONTACT: Thomas Charlton (202-426-2075), Standards Division, Office of Hazardous Materials Regulation, Materials Transportation Bureau, Washington, D.C. 20590.

SUPPLEMENTARY INFORMATION:

Background

Section 306(a) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requires that, within 90 days after the date of enactment of the Act, each substance that is listed or designated as a hazardous substance under the Act shall be listed as a hazardous material under the Hazardous Materials Transportation Act (HMTA). Section 306(b) provides that common and contract carriers shall not be liable under CERCLA for releases of hazardous substances prior to the effective date of the listing of that substance as a hazardous material unless it is demonstrated that the carrier has actual knowledge of the identity or nature of the substance.

The purpose of these provisions is twofold: First, to assure coordination of the implementation of CERCLA (as it relates to transportation) with the administration of the HMTA so as to

avoid regulatory inconsistencies and overlaps; and, second, to provide reasonable notice, through the HMTA regulatory system, to transporters of hazardous substances that they are subject to the liability and other provisions of CERCLA.

Listings

The purpose of this final rule is to fulfill the requirements of Section 306(a) of CERCLA by listing as hazardous materials those substances that EPA has determined to be "hazardous substances," as defined in Section 101(14). That definition incorporates six lists of substances, five of which have been developed under other statutory authorities:

1. Section 311(b)(2)(A) of the Federal Water Pollution Control Act (FWPCA);
2. Section 3001 of the Solid Waste Disposal Act;
3. Section 307(a) of the FWPCA;
4. Section 112 of the Clean Air Act; and
5. Section 7 of the Toxic Substances Control Act (TSCA).

The sixth list is comprised of substances for which authority to designate is granted to EPA in Section 102 of CERCLA.

The listing in this rule does not include:

1. Substances listed under Section 311(b)(2)(A) of the FWPCA. These substances were incorporated into the Hazardous Materials Table on May 22, 1980, (45 FR 34560) and are currently covered by the Hazardous Materials Regulations. It is therefore unnecessary to repeat them in this listing.
2. Substances under Section 7 of the TSCA. No substances have yet been designated under this authority.
3. Substances designated under Section 102 of CERCLA. No substances have yet been designated under this authority.

The listing in this rule includes substances designated under Section 307(a) of the FWPCA, Section 3001 of the Solid Waste Disposal Act, and Section 112 of the Clean Air Act. It should be noted that many of these substances either are already listed in the Hazardous Materials Table or meet an existing hazard class definition and are currently subject to the Hazardous Materials Regulations. Today's listing indicates by asterisk (*) those materials that were listed as hazardous substances in the Department's May 22, 1980, final rule. With respect to the other substances listed, reference should be made to the existing regulations to determine their applicability to those substances.

Effect of Listings

This rule meets the requirement of Section 306(a) of CERCLA since hazardous substances, as defined in Section 101(14) of CERCLA, are listed as hazardous materials under the Hazardous Materials Transportation Act. It does not, however, extend the applicability of the Department's Hazardous Materials Regulations to any materials that are not already covered by those regulations. For example, if in the past shipping papers were not required by 49 CFR 172.200 for a material included in this new listing, they will not now be required as a result of the listing. Specifically, the Department is not at this time incorporating these materials into the list of "hazardous substances," as defined in the Hazardous Materials Regulations (49 CFR 171.8), nor is the Department assigning reportable quantities (RQs) for purposes of the Hazardous Materials Regulations.

Section 102 of CERCLA provides that, pending establishment by EPA of a different quantity, the RQ for all hazardous substances shall be one pound. The Hazardous Materials Regulations provide that shipping papers must be issued for all shipments of hazardous substances (as defined in § 171.8) that equal or exceed their reportable quantity. Therefore, the effect of listing the materials covered by this action as "hazardous substances," as defined by the Department, and assigning an RQ of one pound would be to vastly increase the number of shipments requiring shipping papers under the Hazardous Materials Regulations. For example, every shipment of galvanized steel containing more than one pound of zinc would require a hazardous materials shipping paper. This result would not promote the purposes of CERCLA, and it would be contrary to the Department's goal of minimizing paperwork requirements.

At such time as EPA exercises its authority under Section 102 to establish RQs for particular substances, the Department will determine the appropriateness of listing those substances as "hazardous substances" and assigning those RQs to them.

It should be noted that, as discussed above, some of the materials listed in this rule are already designated as hazardous substances in the Hazardous Materials Table, and RQs for these materials have already been assigned.

Section 102 of CERCLA provides that all materials in today's listing that have not been assigned an RQ shall have an RQ of one pound pending establishment

of a different quantity by EPA. Section 103 (a) and (b) of CERCLA requires that all releases of an RQ of a hazardous substance into the environment be reported to the National Response Center. While the Department does not currently contemplate changing its general incident reporting requirements (49 CFR 171.15 and 171.16), EPA is currently developing a notice explaining how it will implement the requirements of Section 103 (a) and (b) of CERCLA. Shippers and transporters of materials listed in this rule should contact EPA (Mr. H. D. Van Cleave, Acting Director, Emergency Response Division (WH-548), Office of Hazardous Emergency Response, U.S. EPA, 401 M Street, SW., Washington, D.C. 20460, (202) 245-3045) for additional information regarding these reporting requirements.

With respect to those materials listed in this rule that are not already covered by the Hazardous Materials Regulations, the Department is aware that, since shipping papers are not required for these materials, carriers will not always be aware that CERCLA's release notification requirements apply to them. While this uncertainty is unfortunate, it is far preferable to the imposition of extensive new shipping paper and other regulatory requirements that would be necessary to provide carriers with certainty. Furthermore, this uncertainty is an interim consequence of the enactment of CERCLA; as EPA establishes RQs for these materials, the Department will begin to incorporate them into the Hazardous Materials Table as "hazardous substances" and assign RQs to them, at which point the Department's requirements of the Hazardous Materials Regulations will apply.

With respect to the release notification requirements for hazardous substances, (as defined in 49 CFR 171.8), it should be noted that, in addition to the requirements of 49 CFR 171.17 for releases "into or upon the navigable waters or adjoining shorelines," Section 103 (a) and (b) of CERCLA requires the reporting of such releases into the "environment," which is defined broadly to include surface water, ground water, land surface, and ambient air.

Regulatory Impact

The listing contained in this rulemaking, which is required by Section 306(a) of CERCLA to be promulgated within 90 days after the date of enactment of that Act, is essentially informational in nature since no new regulatory requirements are imposed as a result of the listing. Therefore, this rule does not constitute a "major rule" as defined in Executive Order 12291 and

DOT implementing procedures (44 FR 11034).

With regard to the requirements of the Administrative Procedure Act (5 U.S.C. 553), the Department finds that notice and public procedure thereon are impracticable and unnecessary because this rule is required to be promulgated within 90 days after the enactment of CERCLA.

In consideration of the foregoing, Part 172 of Title 49 Code of Federal Regulations is amended as follows:

PART 172—HAZARDOUS MATERIALS TABLES AND HAZARDOUS MATERIALS COMMUNICATIONS REGULATIONS

1. Section 172.101 is amended by adding the following after the Hazardous Materials Table:

§ 172.101 Hazardous Materials Table.

CERCLA List

Note.—The following listing fulfills the requirement of Section 306(a) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), that all "hazardous substances," as defined in that Act, shall be listed as hazardous materials under the Hazardous Materials Transportation Act. That definition includes substances listed under Section 311(b)(2)(A) of the Federal Water Pollution Control Act (FWPCA). Those materials have already been listed as hazardous substances in the Hazardous Materials Table of this section, and that listing is not repeated here. The definition of "hazardous substance" in CERCLA also includes substances designated under Section 307(a) of the FWPCA, Section 3001 of the Solid Waste Disposal Act, and Section 112 of the Clean Air Act. The following listing consists of materials designated under those authorities. Materials indicated in the listing by an asterisk (*) are also listed in the Hazardous Materials Table as hazardous substances. With respect to other materials in the following listing, those that are not forbidden materials or fall within a hazard class are not subject to the requirements of this Subchapter.

It should be noted that Section 306(b) of CERCLA provides that common and contract carriers may be held liable under that Act for the release of a "hazardous substance" as defined in that Act, after the effective date of the listing of that substance as a hazardous material under the Hazardous Materials Transportation Act.

Specific Chemical Wastes

EPA hazardous waste No.	Substance
U001	*Acetaldehyde (I)
U034	Acetaldehyde, trichloro-
U187	Acetamide, N-(4-ethoxyphenyl)-
U005	Acetamide, N-9H-fluorene-2-yl-
U112	Acetic acid, ethyl ester (I)
U144	*Acetic acid, lead salt

Specific Chemical Wastes—Continued

EPA hazardous waste No.	Substance
U214	Acetic acid, thallium (I) salt
U002	Acetone (I)
U003	Acetonitrile (I,T)
U004	Acetophenone
U005	2-Acetylaminofluorene
U006	*Acetyl Chloride (C,R,T)
U007	Acrylamide
U008	Acrylic acid (I)
U009	*Acrylonitrile
U150	Alanine, 3-(p-bis(2-chloroethyl)amino)phenyl-, L-
U011	Amitrole
U012	*Aniline (I,T)
U014	Auramine
U015	Azaserine
U010	Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione,6-amino-8-[[aminocarbonyloxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-1,2-dihydro-3-methyl-
U157	Benz[<i>l</i>]aceanthrylene,1,2-dihydro-3-methyl-
U016	Benz[<i>c</i>]acridine
U015	3,4-Benzacridine
U017	Benzalchloride
U018	Benz[<i>a</i>]anthracene
U018	1,2-Benzanthracene
U094	1,2-Benzanthracene,7,12-dimethyl-
U012	*Benzenamine (I,T)
U014	Benzenamine, 4,4-carbonimidoylbis(N,N-dimethyl-
U049	Benzenamine, 4-chloro-2-methyl-
U093	Benzenamine, N,N-dimethyl-4-phenylazo-
U158	Benzenamine, 4,4'-methylenebis(2-chloro-
U222	Benzenamine, 2-methyl-, hydrochloride
U181	Benzenamine, 2-methyl-5-nitro-
U019	*Benzene (I,T)
U038	Benzeneacetic acid, 4-chloro-alpha-(4-chloro-phenyl)-alpha-hydroxy-, ethyl ester
U030	Benzene, 1-bromo-4-phenoxy-
U037	*Benzene, chloro-
U190	1,2-Benzenedicarboxylic acid anhydride
U028	1,2-Benzenedicarboxylic acid, [bis(2-ethylhexyl)] ester
U069	*1,2-Benzenedicarboxylic acid, dibutyl ester
U088	1,2-Benzenedicarboxylic acid, diethyl ester
U102	1,2-Benzenedicarboxylic acid, dimethyl ester
U107	1,2-Benzenedicarboxylic acid, di-n-octyl ester
U070	*Benzene, 1,2-dichloro-
U071	*Benzene, 1,3-dichloro-
U072	*Benzene, 1,4-dichloro-
U017	Benzene, (dichloromethyl)-
U223	Benzene, 1,3-diisocyanatomethyl-(R,T)
U239	*Benzene, dimethyl-(I,T)
U201	*1,3-Benzenediol
U127	Benzene, hexachloro-
U056	*Benzene, hexahydro-(I)
U188	*Benzene, hydroxy-
U220	*Benzene, methyl-
U105	*Benzene, 1-methyl-2,4-dinitro-
U106	*Benzene, 1-methyl-2,6-dinitro-
U203	Benzene, 1,2-methylenedioxy-4-allyl-
U141	Benzene, 1,2-methylenedioxy-4-propenyl-
U090	Benzene, 1,2-methylenedioxy-4-propyl-
U055	Benzene, (1-methylethyl)-(I)
U169	*Benzene, nitro-(I,T)
U183	Benzene, pentachloro-
U185	Benzene, pentachloro-nitro-
U020	Benzenesulfonic acid chloride (C,R)
U020	Benzenesulfonyl chloride (C,R)
U207	Benzene, 1,2,4,5-Tetrachloro-
U023	Benzene, (trichloromethyl)-(C,R,T)
U234	Benzene, 1,3,5-trinitro-(R,T)
U021	Benzidine
U202	1,2-Benzisothiazolin-3-one, 1,1-dioxido
U120	Benzo[<i>j,k</i>]fluorene
U022	Benzo[<i>a</i>]pyrene
U022	3,4-Benzopyrene
U197	p-Benzoquinone
U023	Benzotrifluoride (C,R,T)
U050	1,2-Benzphenanthrene
U085	2,2'-Bioxirane (I,T)
U021	(1,1'-Biphenyl)-4,4'-diamine
U073	(1,1'-Biphenyl)-4,4'-diamine, 3,3'-dichloro-
U091	(1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethoxy-
U095	(1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethyl-
U024	Bis(2-chloroethoxy) methane
U027	Bis(2-chloroisopropyl) ether
U244	Bis(dimethylthiocarbamoyl) disulfide
U028	Bis(2-ethylthyl) phthalate
U246	Bromine cyanide
U225	Bromoforn

Specific Chemical Wastes—Continued

EPA hazardous waste No.	Substance
U030	4-Bromophenyl phenyl ether
U128	1,3-Butadiene, 1,1,2,3,4,4,-hexachloro-
U172	1-Butanamine, N-butyl-N-nitroso-
U035	Butanoic acid, 4-[Bis(2-chloroethyl) amino] benzene-
U031	1-Butanol (l)
U159	2-Butanone (l,T)
U160	2-Butanone peroxide (R,T)
U053	*2-Butenal
U074	2-Butene, 1,4,-dichloro-(l,T)
U031	n-Butyl alcohol (l)
U136	*Cacodylic acid
U032	*Calcium chromate
U238	Carbamic acid, ethyl ester
U178	Carbamic acid, methylnitroso-, ethyl ester
U176	Carbamide, N-ethyl-N-nitroso-
U177	Carbamide, N-methyl-N-nitroso-
U219	Carbamide, thio-
U097	Carbamoyl chloride, dimethyl-
U215	Carbonic acid, dithallium(l) salt
U156	Carbonochloridic acid, methyl ester (l,T)
U033	Carbon oxyfluoride (R,T)
U211	*Carbon tetrachloride
U033	Carbonyl fluoride (R,T)
U034	Chloral
U035	Chlorambucil
U036	*Chlorane, technical
U026	Chloronaphazine
U037	*Chlorobenzene
U245	1-[p-Chlorobenzoyl]-5-methoxy-2-methylindole-3-acetic acid
U039	4-Chloro-m-cresol
U041	1-Chloro-2,3-epoxypropane
U042	2-Chloroethyl vinyl ether
U044	*Chloroform
U046	Chloromethyl methyl ether
U047	beta-Chloronaphthalene
U048	o-Chlorophenol
U049	4-Chloro-o-toluidine, hydrochloride
U032	*Chromic acid, calcium salt
U050	Chrysene
U051	*Cresosols
U052	*Cresols
U052	Cresylic acid
U053	*Crotonaldehyde
U055	Cumene (l)
U246	Cyanogen bromide
U197	1,4-Cyclohexadienedione
U056	*Cyclohexane (l)
U057	Cyclohexanone (l)
U130	*1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-
U058	Cyclophosphamide
U240	*2,4-D, salts and esters
U059	Daunomycin
U060	*DDD
U081	*DDT
U142	*Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta [c,d]-pentalen-2-one
U062	Dialate
U133	Diamine (R,T)
U221	Diaminotoluene
U063	Dibenz [a,h] anthracene
U063	1,2,5,6-Dibenzanthracene
U064	1,2,7,8-Dibenzopyrene
U064	Dibenz [a,i] pyrene
U066	1,2-Dibromo-3-chloropropane
U069	*Dibutyl phthalate
U062	S-(2,3-Dichloroallyl) diisopropylthiocarbamate
U070	*o-Dichlorobenzene
U071	*m-Dichlorobenzene
U072	*p-Dichlorobenzene
U073	3,3'-Dichlorobenzidine
U074	1,4-Dichloro-2-butene (l,T)
U075	Dichlorodifluoromethane
U192	3,5-Dichloro-N-(1,1-dimethyl-2-propenyl) benzamide
U060	*Dichloro diphenyl dichloroethane
U061	*Dichloro diphenyl trichloroethane
U078	*1,1-Dichloroethylene
U079	1,2-Dichloroethylene
U025	Dichloroethyl ether
U061	2,4-Dichlorophenol
U082	2,6-Dichlorophenol
U240	*2,4-Dichlorophenoxyacetic acid, salts and esters
U083	*1,2-Dichloropropane
U084	*1,3-Dichloropropane
U085	1,2,3,4-Diepoxybutane (l,T)
U108	1,4-Diethylene dioxide
U086	N,N-Diethylhydrazine

Specific Chemical Wastes—Continued

EPA hazardous waste No.	Substance
U087	O-O-Diethyl-S-methyl-dithiophosphate
U088	Diethyl phthalate
U089	Diethylstilbestrol
U148	1,2-Dihydro-3,6-pyridazinone
U090	Dihydrosofrole
U091	3,3'-Dimethoxybenzidine
U092	*Dimethylamine (l)
U093	Dimethylaminoazobenzene
U094	7,12-Dimethylbenz[a] anthracene
U095	3,3'-Dimethylbenzidine
U096	alpha, alpha-Dimethylbenzylhydroperoxide (R)
U097	Dimethylcarbamoyl chloride
U098	1,1-Dimethylhydrazine
U099	1,2-Dimethylhydrazine
U101	*2,4-Dimethylphenol
U102	Dimethyl phthalate
U103	Dimethyl sulfate
U105	*2,4-Dinitrotoluene
U106	*2,6-Dinitrotoluene
U107	Di-n-octyl phthalate
U108	1,4-Dioxane
U109	1,2-Diphenylhydrazine
U110	Dipropylamine (l)
U111	Di-n-propylnitrosamine
U001	*Ethanal (l)
U174	Ethanamine, N-ethyl-N-nitroso-
U067	*Ethane, 1,2-dibromo-
U076	Ethane, 1,1-dichloro-
U077	*Ethane, 1,2-dichloro-
U114	1,2-Ethanediybis(carbamodithioic acid
U131	Ethane, 1,1,1,2,2,2-hexachloro-
U024	Ethane, 1,1-(methylenebis(oxy))bis [2-chloro-
U003	*Ethanenitrile (l,T)
U117	Ethane, 1,1'-oxybis-(l)
U025	Ethane, 1,1'-oxybis [2-chloro-
U184	Ethane, pentachloro-
U208	Ethane, 1,1,1,2-tetrachloro-
U209	Ethane, 1,1,2,2-tetrachloro-
U218	Ethanethioamide
U227	Ethane, 1,1,2-trichloro-
U043	Ethene, chloro-
U042	Ethene, 2-chloroethoxy-
U078	*Ethene, 1,1-dichloro-
U079	Ethene, trans-1,2-dichloro-
U210	Ethene, 1,1,2,2-tetrachloro-
U173	Ethanol, 2,2'-(nitrosoimino)bis-
U004	Ethanone, 1-phenyl-
U046	*Ethanoyl chloride (C,R,T)
U112	Ethyl acetate (l)
U113	Ethyl acrylate (l)
U238	Ethyl carbamate (urethan)
U038	Ethyl 4,4'-dichlorobenzilate
U114	Ethylenebis(dithiocarbamic acid)
U067	*Ethylene dibromide
U077	*Ethylene dichloride
U115	Ethylene oxide (l,T)
U116	Ethylene thiourea
U117	Ethyl ether (l)
U076	Ethylidene dichloride
U118	Ethyl methacrylate
U119	Ethyl methanesulfonate
U139	Ferric dextran
U120	Fluoranthene
U122	*Formaldehyde
U123	*Formic acid (C,T)
U124	Furan (l)
U125	*2-Furancarboxaldehyde (l)
U147	*2,5-Furandione
U213	Furan, tetrahydro- (l)
U125	*Furfural (l)
U124	Furfuran (l)
U206	D-Glucopyranose, 2-deoxy-2(3-methyl-3-nitrosouride)
U128	Glycidylaldehyde
U163	Guanidine, N-nitroso-N-methyl-N'-nitro-
U127	Hexachlorobenzene
U128	Hexachlorobutadiene
U129	*Hexachlorocyclohexane (gamma isomer)
U130	*Hexachlorocyclopentadiene
U131	Hexachloroethane
U132	Hexachlorophene
U243	Hexachloropropene
U133	Hydrazine (R,T)
U086	Hydrazine, 1,2-diethyl-
U098	Hydrazine, 1,1-dimethyl-
U099	Hydrazine, 1,2-dimethyl-
U109	Hydrazine, 1,2-diphenyl-
U134	*Hydrofluoric acid (C,T)
U134	*Hydrogen fluoride (C,T)

Specific Chemical Wastes—Continued

EPA hazardous waste No.	Substance
U135	Hydrogen sulfide
U096	Hydroperoxide, 1-methyl-1-phenylethyl- (R)
U136	Hydroxydimethylarsine oxide
U116	2-Imidazolidinethione
U137	Indeno [1,2,3-cd] pyrene
U245	Indomethacin
U139	Iron dextran
U140	Isobutyl alcohol (l,T)
U141	Isosafrole
U142	*Kepone
U143	Lasiocarpine
U144	*Lead acetate
U145	Lead phosphate
U146	Lead subacetate
U129	*Lindane
U147	*Maleic anhydride
U148	Maleic hydrazide
U149	Maionitrile
U150	Malphalan
U151	Mercury
U152	Methacrylonitrile (l,T)
U092	*Methanamine, N-methyl-(l)
U029	Methane, bromo-
U045	Methane, chloro-(l,T)
U046	Methane, chloromethoxy-
U068	Methane, dibromo-
U080	Methane, dichloro-
U075	Methane, dichlorodifluoro-
U138	Methane, iodo-
U119	Methanesulfonic acid, enyl ester
U211	*Methane, tetrachloro-
U153	Methanethiol (l,T)
U225	Methane, tribromo-
U044	*Methane, trichloro-
U121	Methane, trichlorofluoro-
U123	*Methanoic acid (C,T)
U036	*4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4-, 7,7a-tetrahydro-
U154	Methanol (l)
U155	Methapyrilene
U154	Methyl alcohol (l)
U029	Methyl bromide
U186	1-Methylbutadiene (l)
U045	Methyl chloride (l,T)
U156	Methyl chlorocarbonate (l,T)
U226	Methyl chloroform
U157	3-Methylcholanthrene
U158	4,4'-Methylenebis(2-chloroaniline)
U132	2,2'-Methylenebis(3,4,6-trichlorophenol)
U068	Methylene bromide
U080	Methylene chloride
U122	*Methylene oxide
U159	Methyl ethyl ketone (l,T)
U160	Methyl ethyl ketone peroxide (R,T)
U138	Methyl iodide
U101	Methyl isobutyl ketone (l)
U162	*Methyl methacrylate (l,T)
U163	N-Methyl-N'-nitro-N-nitrosoguanidine
U161	4-Methyl-2-pentanone (l)
U164	Methylthiouacil
U010	Mitomycin C
U059	5,12-Naphthacenedione, (8S-cis)-6-acetyl-10-[[3-amino-2,3-, 6-indeoxy-alpha-L-xylo-hexopyranosyl) oxy]]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-
U165	*Naphthalene
U047	Naphthalene, 2-chloro-
U166	1,4-Naphthalenedione
U236	2,7-Naphthalenedisulfonic acid, 3,3'-[[3,3'-di-methyl-(1,1'-biphenyl)-4,4'-diyl]]-bis(azo)bis(5-amino-4 hydroxy)-, tetrasodium salt
U166	1,4-Naphthoquinone
U167	1-Naphthylamine
U168	2-Naphthylamine
U167	alpha-Naphthylamine
U168	beta-Naphthylamine
U026	2-Naphthylamine, N,N'-bis(2-chloromethyl)-
U169	*Nitrobenzene (l,T)
U170	*p-Nitrophenol
U171	2-Nitropropane (l)
U172	N-Nitrosodi-n-butylamine
U173	N-Nitrosodiethanolamine
U174	N-Nitrosodimethylamine
U111	N-Nitrosodi-n-propylamine
U176	N-Nitroso-N-ethylurea
U177	N-Nitroso-N-methylurea
U178	N-Nitroso-N-methylurethane
U179	N-Nitrosopiperidine
U180	N-Nitrosopyrrolidine

Specific Chemical Wastes—Continued		Specific Chemical Wastes—Continued		Specific Chemical Wastes—Continued	
EPA hazardous waste No.	Substance	EPA hazardous waste No.	Substance	EPA hazardous waste No.	Substance
U181	5-Nitro-o-toluidine	U218	Thioacetamide	P084	Ethenamine,N-methyl-N-nitroso-
U193	1,2-Oxathiolane, 2,2-dioxide	U153	Thiomethanol (I,T)	P101	Ethyl cyanide
U058	2H-1,3,2-Oxazaphosphorine, 2-(bis(2-chloroethyl) amino) tetrahydro-2-oxide	U219	Thiourea	P054	Ethylenimine
U115	Oxirane (I,T)	U244	Thiram	P097	Famphur
U041	*Oxirane, 2-(chloromethyl)-	U220	Toluene	P056	Fluorine
U182	Paraldehyde	U221	Toluenediamine	P057	Fluoroacetamide
U183	Pentachlorobenzene	U223	Toluene dithiocyanate (R,T)	P058	Fluoroacetic acid, sodium salt
U184	Pentachloroethane	U222	o-Toluidine hydrochloride	P065	Fulmic acid, mercury (II) salt (R,T)
U185	Pentachloronitrobenzene	U011	1H-1,2,4-Triazol-3-amine	P059	*Heptachlor
U242	*Pentachlorophenol	U226	1,1,1-Trichloroethane	P051	*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
U186	1,3-Pentadiene (I)	U227	1,1,2-Trichloroethane	P037	*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
U187	Phenacetin	U228	*Trichloroethene	P060	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene
U188	*Phenol	U228	*Trichlorethylene	P004	*1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,exo-dimethanonaphthalene
U046	Phenol, 2-chloro-	U121	Trichloromonofluoromethane	P060	Hexachlorohexahydro-exo,exo-dimethanonaphthalene
U039	Phenol, 4-chloro-3-methyl-	U230	*2,4,5-Trichlorophenol	P062	Hexaethyl tetraphosphate
U081	Phenol, 2,4-dichloro-	U231	*2,4,6-Trichlorophenol	P116	Hydrazinecarbothioamide
U082	Phenol, 2,6-dichloro-	U232	*2,4,5-Trichlorophenoxyacetic acid	P068	Hydrazine, methyl-
U101	*Phenol, 2,4-dimethyl-	U234	sym-Tri-nitrobenzene (R,T)	P063	*Hydrocyanic acid
U170	*Phenol, 4-nitro-	U182	1,3,5-Trioxane, 2,4,5-trimethyl-	P063	*Hydrogen cyanide
U242	*Phenol, pentachloro-	U235	Tris(2,3-dibromopropyl) phosphite	P096	Hydrogen phosphide
U212	Phenol, 2,3,4,6-tetrachloro-	U236	Trypan blue	P064	Isocyanic acid, methyl ester
U230	*Phenol, 2,4,5-trichloro-	U237	Uracil, 5[bis(2-chloromethyl)amino]-	P007	3(2H)-Isoxazolone,5-(aminomethyl)-
U231	*Phenol, 2,4,6-trichloro-	U237	Uracil mustard	P092	Mercury,(acetato-O)phenyl-
U137	1,10-(1,2-Phenylene)pyrene	U043	Vinyl chloride	P065	Mercury fulminate (R,T)
U145	Phosphoric acid, lead salt	U239	*Xylene (I)	P016	Methane,oxymethylchloro-
U087	Phosphorodithioic acid, O,O-diethyl-, S-methyl ester	U200	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxy-benzoyl)oxy]-, methyl ester	P112	Methane, tetranitro-(R)
U189	Phosphorous sulfide (R)	P012	*Arsenic(III) oxide	P118	Methanethiol, trichloro-
U190	Phthalic anhydride	P011	*Arsenic pentoxide	P059	*4,7-Methano-1H-indene,1,4,5,7,8-heptachloro-3a,4,7,7a-tetrahydro-
U191	2-Picoline	P011	*Arsenic(V) oxide	P066	Methomyl
U192	Pronamide	P012	*Arsenic trioxide	P067	2-Methylaziridine
U194	1-Propanamine (I,T)	P038	Arsine, diethyl-	P068	Methyl hydrazine
U110	1-Propanamine, N-propyl-(I)	P054	Aziridine	P064	Methyl isocyanate
U066	Propane, 1,2-dibromo-3-chloro-	P013	*Barium cyanide	P069	*2-Methylacetonitrile
U149	Propanedinitrile	P024	Benzenamine, 4-chloro-	P071	*Methyl parathion
U171	Propane, 2-nitro-(I)	P077	Benzenamine, 4-nitro-	P072	alpha-Naphthylthiourea
U027	Propane, 2,2-oxylbis[2-chloro-1,3-Propane sulfone	P028	*Benzene, (chloromethyl)-	P073	Nickel carbonyl
U193	1,3-Propane sulfone	P042	1,2-Benzene-diol, 4-[1-hydroxy-2-(methylamino) ethyl]-	P074	Nickel cyanide
U235	1-Propanol, 2,3-dibromo-, phosphate (3:1)	P014	Benzenethiol	P074	Nickel(II) cyanide
U126	1-Propanol, 2,3-epoxy-	P028	*Benzyl chloride	P073	Nickel tetracarbonyl
U140	1-Propanol, 2-methyl-(I,T)	P015	Beryllium dust	P075	Nicotine and salts
U002	2-Propanone (I)	P016	Bis(chloromethyl) ether	P076	Nitric oxide
U007	2-Propanamide	P017	Bromoacetone	P077	p-Nitroaniline
U084	*Propene, 1,3-dichloro-	P018	Brucine	P078	*Nitrogen dioxide
U243	1-Propene, 1,1,2,3,3,3-hexachloro-	P021	*Calcium cyanide	P076	Nitrogen(II) oxide
U009	*2-Propenenitrile	P123	Camphene, octachloro-	P078	*Nitrogen(IV) oxide
U152	2-Propenenitrile, 2-methyl-(I,T)	P103	Carbamimidoseleonic acid	P081	Nitroglycerine (R)
U008	2-Propenoic acid (I)	P022	*Carbon bisulfide	P082	N-Nitrosodimethylamine
U113	2-Propenoic acid, ethyl ester (I)	P022	*Carbon disulfide	P084	N-Nitrosomethylvinylamine
U116	2-Propenoic acid, 2-methyl-, ethyl ester	P095	*Carbonyl chloride	P050	*5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-Hexachloro cyclic sulfite
U162	*2-Propenoic acid, 2-methyl-, methyl ester (I,T)	P033	*Chlorine cyanide	P085	Octamethylpyrophosphoramide
U233	*Propionic acid, 2-(2,4,5-trichlorophenoxy)-n-Propylamine (I,T)	P023	Chloroacetaldehyde	P087	Osmium oxide
U194	n-Propylamine (I,T)	P024	p-Chloroaniline	P087	Osmium tetroxide
U063	*Propylene dichloride	P026	1-(o-Chlorophenyl)thiourea	P088	7-Oxabicyclo[2.2.1] heptane-2,3-dicarboxylic acid
U196	Pyridine	P027	3-Chloropropionitrile	P089	*Parathion
U155	Pyridine, 2-[(2-dimethylamino)ethyl]-2-thenylamino-	P029	Copper cyanides	P034	Phenol, 2-cyclohexyl-4,6-dinitro-
U179	Pyridine, hexahydro-N-nitroso-	P030	Cyanides (soluble cyanide salts), not elsewhere specified	P048	*Phenol, 2,4-dinitro-
U191	Pyridine, 2-methyl-	P031	Cyanogen	P047	Phenol, 2,4-dinitro-6-methyl-
U164	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	P033	*Cyanogen chloride	P020	Phenol, 2,4-dinitro-6-(1-methylpropyl)-
U180	Pyrrrole, tetrahydro-N-nitroso-	P036	Dichlorophenylarsine	P009	Phenol, 2,4,6-trinitro-, ammonium salt (R)
U200	Reserpine	P037	*Diethrin	P036	Phenyl dichloroarsine
U201	*Resorcinol	P038	Diethylarsine	P092	Phenylmercuric acetate
U202	Saccharin and salts	P039	*O,O-Diethyl S-[(2-ethylthio)ethyl] phosphorodithioate	P093	N-Phenylthiourea
U203	Safrole	P041	Diethyl-p-nitrophenyl phosphate	P094	*Phorate
U204	Selenious acid	P040	O,O-Diethyl O-pyrazinyl phosphorothioate	P095	*Phosgene
U204	*Selenium dioxide	P043	Disopropyl fluorophosphate	P096	Phosphine
U205	Selenium disulfide (R,T)	P044	Dimethoate	P041	Phosphoric acid, diethyl p-nitrophenyl ester
U015	L-Serine, diazoacetate (ester)	P045	3,3-Dimethyl-1-(methylthio)-2-butanone, O-1-(methyl-amino)carbonyl oxime	P044	Phosphorodithioic acid, O,O-dimethyl S-[(2-methyl-amino)-2-oxoethyl] ester
U233	*Silvex	P071	*O,O-Dimethyl O-p-nitrophenyl phosphorothioate	P043	Phosphorofluoric acid, bis(methylthio) ester
U089	4,4'-Stilbenediol, alpha, alpha'-diethyl-	P082	Dimethylnitrosamine	P094	Phosphorothioic acid, O,O-diethyl S-(ethylthio)methyl ester
U206	Streptozotcin	P046	alpha, alpha-Dimethylphenethylamine	P089	*Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester
U135	Sulfur hydride	P047	4,6-Dinitro-o-cresol and salts	P040	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
U103	Sulfuric acid, dimethyl ester	P034	4,6-Dinitro-o-cyclohexylphenol	P097	Phosphorothioic acid, O,O-dimethyl O-[p-(dimethyl-amino)sulfonyl]phenyl ester
U189	Sulfur phosphide (R)	P048	*2,4-Dinitrophenol	P110	*Plumbane, tetraethyl-
U205	Sulfur selenide (R,T)	P020	Dinoseb		
U232	*2,4,5-T	P085	Diphosphoramidate, octamethyl-		
U207	1,2,4,5-Tetrachlorobenzene	P039	*Disulfoton		
U208	1,1,1,2-Tetrachloroethane	P049	2,4-Dithioburet		
U209	1,1,2,2-Tetrachloroethane	P109	Dithiopyrophosphoric acid, tetraethyl ester		
U210	Tetrachloroethylene	P050	*Endosulfan		
U212	2,3,4,6-Tetrachlorophenol	P088	Endothal		
U213	Tetrahydrofuran (I)	P051	*Endrin		
U214	Thallium(I) acetate	P042	Epinephrine		
U215	Thallium(I) carbonate	P046	Ethanamine,1,1-dimethyl-2-phenyl-		
U216	Thallium(I) chloride				
U217	Thallium(I) nitrate				

Specific Chemical Wastes—Continued		Specific Chemical Wastes—Continued		Specific Chemical Wastes—Continued	
EPA hazardous waste No.	Substance	EPA hazardous waste No.	Substance	EPA hazardous waste No.	Substance
P098	*Potassium cyanide	F019	Wastewater treatment sludges for the chemical conversion coating of aluminum.	K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
P099	Potassium silver cyanide	F007	Spent cyanide plating bath solutions from electroplating operations (except for precious metals electroplating spent cyanide plating bath solutions).	K026	Stripping still tails from the production of methyl ethyl pyridines.
P070	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino) carbonyl] oxime	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).	K027	Centrifuge and distillation residues from toluene diisocyanate production.
P101	Propanenitrile	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).	K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.
P027	Propanenitrile, 3-chloro-	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).	K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane.
P069	*Propanenitrile, 2-hydroxy-2-methyl-	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).	K095	Distillation bottoms from the production of 1,1,1-trichloroethane.
P081	1,2,3-Propanetriol, trinitrate (R)	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).	K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.
P017	2-Propanone, 1-bromo-	F015	Spent cyanide bath solutions from mineral metals recovery operations.	K030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.
P102	Propargyl alcohol	K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	K083	Distillation bottoms from aniline production.
P003	*2-Propanal	K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.	K103	Process residues from aniline extraction from the production of aniline.
P005	*2-Propen-1-ol	K003	Wastewater treatment sludge from the production of molybdate orange pigments.	K104	Combined wastewater streams generated from nitrobenzene/aniline production.
P067	1,2-Propylenimine	K004	Wastewater treatment sludge from the production of zinc yellow pigments.	K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.
P102	2-Propyn-1-ol	K005	Wastewater treatment sludge from the production of chrome green pigments.	K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.
P008	4-Pyridinamine	K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).	K071	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.
P075	Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts	K007	Wastewater treatment sludge from the production of iron blue pigments.	K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.
P111	*Pyrophosphoric acid, tetraethyl ester	K008	Oven residue from the production of chrome oxide green pigments.	K106	Wastewater treatment sludge from the mercury cell process in chlorine production.
P103	Selenourea	K009	Distillation bottoms from the production of acetaldehyde from ethylene.	K031	By-product salts generated in the production of MSMA and cacodylic acid.
P104	Silver cyanide	K010	Distillation side cuts from the production of acetaldehyde from ethylene.	K032	Wastewater treatment sludge from the production of chlordane.
P105	Sodium azide	K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.	K033	Wastewater and scrub water and scrub water from the chlorination of cyclopentadiene in the production of chlordane.
P106	*Sodium cyanide	K013	Bottom stream from the acetonitrile column in the production of acrylonitrile.	K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.
P107	Strontium sulfide	K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.	K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.
P108	*Strychnidin-10-one, and salts	K015	Still bottoms from the distillation of benzyl chloride.	K035	Wastewater treatment sludges generated in the production of cresote.
P018	Strychnidin-10-one, 2,3-dimethoxy-	K016	Heavy ends or distillation residues from the production of carbon tetrachloride.	K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.
P108	Strychnine and salts	K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.	K037	Wastewater treatment sludges from the production of disulfoton.
P115	*Sulfuric acid, thallium(I) salt	K018	Heavy ends from the fractionation column in ethyl chloride production.	K038	Wastewater from the washing and stripping of phorate production.
P109	Tetraethylthiopyrophosphate	K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	K039	Filter cake from filtration of diethylphosphorodithioic acid in the production of phorate.
P110	*Tetraethyl lead	K020	Heavy ends from the distillation of vinyl dichloride in vinyl chloride monomer production.	K040	Wastewater treatment sludge from the production of phorate.
P111	*Tetraethylpyrophosphate	K021	Aqueous spent antimony catalyst waste from fluoromethanes production.	K041	Wastewater treatment sludge from the production of toxaphene.
P112	Tetramthromethane (R)	K022	Distillation bottom tars from the production of phenol/acetone from cumene.	K098	Untreated process wastewater from the production of toxaphene.
P062	Tetraphosphoric acid, hexaethyl ester	K023	Distillation light ends from the production of phthalic anhydride from naphthalene.	K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.
P113	Thallic oxide	K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.	K043	2,6-Dichlorophenol waste from the production of 2,4-D
P113	Thallium(III) oxide	K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.	K099	Untreated wastewater from the production of 2,4-D.
P114	Thallium(I) selenite	K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.	K044	Wastewater treatment sludges from the manufacturing and processing of explosives.
P115	*Thallium(I) sulfate			K045	Spent carbon from the treatment of wastewater containing explosives.
P045	Thiofanox			K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.
P049	Thioimidodicarbonic diamide			K047	Pink/red water from TNT operations.
P014	Thiophenol			K048	Disolved air flotation (DAF) float from the petroleum refining industry.
P116	Thiosemicarbazide			K049	Slip oil emulsion solids from the petroleum refining industry.
P026	Thiourea, (2-chlorophenyl)-			K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.
P072	Thiourea, 1-naphthalenyl-				
P093	Thiourea, phenyl-				
P123	*Toxaphene				
P118	Trichloromethanethiol				
P119	Vanadic acid, ammonium salt				
P120	*Vanadium pentoxide				
P120	*Vanadium(V) oxide				
P001	Warfarin				
P121	*Zinc cyanide				
P122	*Zinc phosphide (R,T)				
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; and sludges from the recovery of these solvents in degreasing operations.				
F002	The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, orthodichlorobenzene, and trichlorofluoromethane; and the still bottoms from the recovery of these solvents.				
F003	The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; and the still bottoms from the recovery of these solvents.				
F004	The following spent non-halogenated solvents: cresols and cresylic acid, and nitrobenzene; and the still bottoms from the recovery of these solvents.				
F005	The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, and pyridine; and the still bottoms from the recovery of these solvents.				
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 carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.				

Specific Chemical Wastes—Continued

EPA hazardous waste No.	Substance
K051.....	API separator sludge from the petroleum refining industry.
K052.....	Tank bottoms (leaded) from the petroleum refining industry.
K061.....	Emission control dust/sludge from the primary production of steel in electric furnaces
K062.....	Spent pickle liquor from steel finishing operations.
K069.....	Emission control dust/sludge from secondary lead smelting.
K100.....	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.
K084.....	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K101.....	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K102.....	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
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.
K060.....	Ammonia still lime sludge from coking operations.
K087.....	Decanter tank tar sludge from coking operations.

BILLING CODE 4910-60-M

Chemicals listed by EPA
under Section 307(a)
of the Clean Water Act

Acenaphthylene	Benzo[ghi]perylene
Acenaphthene	Benzo[a]pyrene
*Acetic acid	Beryllium
*Acrolein	*Beryllium chloride
Anthracene	*Beryllium fluoride
Antimony	*Beryllium nitrate
*Antimony pentachloride	Bis(2-chloroethoxy)methane
*Antimony potassium tartrate	Bis(2-chloroethyl)ether
*Antimony tribromide	Bis(2-chloroisopropyl)ether
*Antimony trichloride	Bis(2-ethylhexyl)phthalate
*Antimony trifluoride	Bromomethane
*Antimony trioxide	4-Bromophenyl phenyl ether
Arsenic	Butyl benzyl phthalate
Arsenic acid	*n-Butyl phthalate
*Arsenic disulfide	Cadmium
*Arsenic pentoxide	*Cadmium acetate
*Arsenic trichloride	*Cadmium bromide
*Arsenic trioxide	*Cadmium chloride
Asbestos	*Carbon tetrachloride
Benz[a]anthracene	*Chlordane
*Benzene	*Chlorobenzene
Benzidine	Chlorodibromomethane

Benzo[b] fluoranthene	p-Chloro-m-cresol
Benzo[k] fluoranthene	Choroethane
2-Chloroethyl vinyl ether	*Cupric oxalate
*Chloroform	*Curpic sulfate
Chloromethane	*Cupric sulfate ammoniated
Chloromethyl methyl ether	*Cupric tartrate
Chloronaphthalene (all isomers)	*Cyanides (soluble salts and complexes),n.o.s.
2-Chloronaphthalene	*Cyanogen chloride
Chlorophenol	2-Cyclohexyl-4, 6-dinitrophenol
2-Chlorophenol	*DDD
2-Chloronaphthalene	DDE
4-Chlorophenyl phenyl ether	*DDT
Chromium	Dibenz [a,h] anthracene (Dibenzo [a,h] anthracene)
*Chromic acetate	Dibenzo [a,e] pyrene
*Chromic acid	Dibenzo [a,h] pyrene
*Chromic sulfate	Dibenzo [a,i] pyrene
*Chromous chloride	Dibromomethane
Chrysene	*Di-n-butyl phthalate
Copper	*Dichlorobenzene (all isomers)
Copper cyanide	Dichlorobenzidine (all isomers)
*Cupric acetate	3,3'-Dichlorobenzidine
*Cupric acetoarsenite	Dichlorobromomethane
*Cupric chloride	Dichloroethane (all isomers)
*Cupric nitrate	1,1-Dichloroethane

1,2-Dichloroethane	*2,4-Dinitrotoluene
*Dichloroethylene (all isomers)	*2,6-Dinitrotoluene
*1,1-Dichloroethylene	Di-n-octyl phthalate
*1,2-Dichloroethylene	Di-n-propylnitrosamine
Dichloromethane	*Endosulfan (all isomers)
Dichloronaphthalene (all isomers)	Endosulfan sulfate
Dichlorophenol (all isomers)	*Endrin and metabolites
2,4-Dichlorophenol	*Ethyl benzene
2,6-Dichlorophenol	Ethyl cyanide
Dichlorophenylarsine	*Ethylene dichloride
*Dichloropropane (all isomers)	Fluoranthene
*Dichloropropene-Dichloropropane mixture	Fluorene
*Dichloropropene(s) (all isomers)	*Heptachlor
*1,3-Dichloropropene	Heptachlor epoxide
*Dieldrin	Hexachlorobenzene
Diethylarsine	*Hexachlorobutadiene
Diethyl phthalate	Hexachlorocyclohexane (all isomers)
7,12-Dimethylbenz [a] anthracene	*Hexachlorocyclopentadiene
Dimethylnitrosamine	Hexachloroethane
*2,4-Dimethylphenol	Hexachlorophene
Dimethyl phthalate	Indeno(1,2,3-cd)pyrene
4,6-Dinitro-o-cresol	Iodomethane
*Dinitrotoluene (all isomers)	isophorone

Lead	*Nickel nitrate
*Lead acetate	*Nickel sulfate
*Lead arsenate	*Nitrobenzene
*Lead chloride	*Nitrophenol (all isomers)
*Lead fluoborate	*2-Nitrophenol
*Lead fluoride	*4-Nitrophenol
*Lead iodide	N-Nitrosodi-n-butylamine
*Lead nitrate	N-Nitrosodiethanolamine
Lead phosphate	N-Nitrosodiethylamine
*Lead stearate	N-Nitrosodimethylamine
Lead subacetate	N-Nitrosodiphenylamine
*Lead sulfate	N-Nitrosodi-n-propylamine
*Lead sulfide	N-Nitrosomethylethylamine
*Lead thiocyanate	N-Nitrosomethylvinylamine
*Mercuric cyanide	Octachloronaphthalene
*Mercuric nitrate	Pentachlorobenzene
*Mercuric sulfate	Pentachloroethane
Mercuric thiocyanate	*Pentachlorophenol
*Mercurous nitrate	Phenanthrene
Mercury	*Phenol
Nickel	Phenyl dichloroarsine
*Nickel ammonium sulfate	Phenylmercury acetate
*Nickel chloride	*Polychlorinated biphenyl(s) (PCBs)
*Nickel hydroxide	Potassium silver cyanide

Nickel carbonyl	Pyrene
Nickel cyanide	Selenious acid
Selenium	Trichlorfon
Selenium oxide	Trichloroethane (all isomers)
Selenium sulfide	1,1,1-Trichloroethane
Silver	1,1,2-Trichloroethane
Silver cyanide	*Trichloroethylene
*Silver nitrate	*Trichlorophenol (all isomers)
Tetrachlorobenzene	*2,4,5-Trichlorophenol
1,2,4,5-Tetrachlorobenzene	*2,4,6-Trichlorophenol
2,3,7,8-Tetrachlorodibenzo-p-dioxin	Vinyle chloride
Tetrachloroethane (all isomers)	Zinc
1,1,1,2-Tetrachloroethane	*Zinc acetate
1,1,2,2-Tetrachloroethane	*Zinc ammonium chloride
Tetrachloroethene (Tetrachloroethylene)	*Zinc borate
*Tetrachloromethane	*Zinc bromide
Tetrachlorophenol (all isomers)	*Zinc carbonate
2,3,4,6-Tetrachlorophenol	*Zinc chloride
*TDE	*Zinc cyanide
Thallium	*Zinc fluoride
Thallic oxide	*Zinc formate
Thallium (I) acetate	*Zinc hydrosulfite
Thallium (I) carbonate	*Zinc nitrate
Thallium (I) chloride	*Zinc phenolsulfonate

Thallium (I) nitrate

Thallium (I) selenite

*Thallium (I) sulfate

*Toluene

*Toxaphene

Tribromomethane

Trichlorobenzene (all isomers)

1,2,4-Trichlorobenzene

*Zinc phosphide

*Zinc silicofluoride

*Zinc sulfate

*Zirconium nitrate

*Zirconium potassium fluoride

*Zirconium sulfate

*Zirconium tetrachloride

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(49 U.S.C. 1803, 1804, 1808; 49 CFR 1.53, Appendix A to Part 1)

Note.—The Materials Transportation Bureau has determined that this document will not result in a "major-rule" under the terms of Executive Order 12291 and is not a significant regulation under DOT's regulatory policy and procedures (44 FR 11043), nor require an environmental impact statement under the National Environmental Policy Act (49 U.S.C. 4321) et seq.). A regulatory evaluation and an environmental assessment are available for review in the docket.

L. D. Santman,

Director, Materials Transportation Bureau.

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