**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-fluoren-2-yl- |
| U112 | Acetic acid, ethyl ester (I) |
| U144 | *Acetic acid, lead salt |
| 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-[((aminocarbonyl)oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-me |
| U157 | Benz[j]aceanthrylene,1,2-dihydro-3-methyl- |
| U016 | Benz[c]acridine |
| U016 | 3,4-Benzacridine |
| U017 | Benzalchloride |
| U018 | Benz[a]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-chlorophenyl)-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-dioxide |
| U120 | Benzo[j,k] fluorene |
| U022 | Benzo[a]pyrene |
| U022 | 3,4-Benzopyrene |
| U197 | p-Benzoquinone |
| U023 | Benzotrichloride (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-ethylhexyl) phthalate |
| U246 | Bromine cyanide |
| U225 | Bromoform |

## 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) aminol] benzene- |
| U031 | 1-Butanol (I) |
| U159 | 2-Butanone (I,T) |
| U160 | 2-Butanone peroxide (R,T) |
| U053 | *2-Butenal |
| U074 | 2-Butene, I,4,-dichloro-(I,T) |
| U031 | n-Butyl alcohol (I) |
| 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(I) salt |
| U156 | Carbonochloridic acid, methyl ester (I,T) |
| U033 | Carbon oxyfluoride (R,T) |
| U211 | *Carbon tetrachloride |
| U033 | Carbonyl fluoride (R,T) |
| U034 | Chloral |
| U035 | Chlorambucil |
| U036 | *Chlordane, technical |
| U026 | Chlornaphazine |
| 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 | Creosote |
| U052 | *Cresols |
| U052 | Cresylic acid |
| U053 | *Crotonaldehyde |
| U055 | Cumene (I) |
| U246 | Cyanogen bromide |
| U197 | 1,4-Cyclohexadienedione |
| U056 | *Cyclohexane (I) |
| U057 | Cyclohexanone (I) |
| U130 | *1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- |
| U058 | Cyclophosphamide |
| U240 | *2,4-D, salts and esters |
| U059 | Daunomycin |
| U060 | *DDD |
| U061 | *DDT |
| U142 | *Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta [c,d]-pentalen-2-one |
| U062 | Diallate |
| 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-Dibramo-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 (I,T) |
| U075 | Dichlorodifluoromethane |
| U192 | 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl) benzamide |
| U060 | *Dichloro diphenyl dichloroethane |
| U061 | *Dichloro diphenyl trichloroethane |
| U078 | *1,1-Dichloroethylene |
| U079 | 1,2-Dichloroethylene |
| U025 | Dichloroethyl ether |
| U081 | 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 (I,T) |
| U108 | 1,4-Diethylene dioxide |
| U086 | N,N-Diethylhydrazine |
| U087 | O-O-Diethyl-S-methyl-dithiophosphate |
| U088 | Diethyl phthalate |
| U089 | Diethylstilbestrol |
| U148 | 1,2-Dihydro-3,6-pyradizinedione |
| U090 | Dihydrosafrole |
| U091 | 3,3'-Dimethoxybenzidine |
| U092 | *Dimethylamine (I) |
| 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 (I) |
| U111 | Di-n-propylnitrosamine |
| U001 | *Ethanal (I) |
| U174 | Ethanamine, N-ethyl-N-nitroso- |
| U067 | *Ethane, 1,2-dibromo- |
| U076 | Ethane, 1,1-dichloro- |
| U077 | *Ethane, 1,2-dichloro- |
| U114 | 1,2-Ethanediylbiscarbamodithioic acid |
| U131 | Ethane, 1,1,1,2,2,2-hexachloro- |
| U024 | Ethane, 1,1'-[methylenebis(oxy)]bis [2-chloro- |
| U003 | *Ethanenitrile (I,T) |
| U117 | Ethane, 1,1'-oxybis-(I) |
| 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- |
| U006 | *Ethanoyl chloride (C,R,T) |
| U112 | Ethyl acetate (I) |
| U113 | Ethyl acrylate (I) |
| U238 | Ethyl carbamate (urethan) |
| U038 | Ethyl 4,4'-dichlorobenzilate |
| U114 | Ethylenebis(dithiocarbamic acid) |
| U067 | *Ethylene dibromide |
| U077 | *Ethylene dichloride |
| U115 | Ethylene oxide (I,T) |
| U116 | Ethylene thiourea |
| U117 | Ethyl ether (I) |
| U076 | Ethylidene dichloride |
| U118 | Ethyl methacrylate |
| U119 | Ethyl methanesulfonate |
| U139 | Ferric dextran |
| U120 | Fluoranthene |
| U122 | *Formaldehyde |
| U123 | *Formic acid (C,T) |
| U124 | Furan (I) |
| U125 | *2-Furancarboxaldehyde (I) |
| U147 | *2,5-furandione |
| U213 | Furan, tetrahydro- (I) |
| U125 | *Furfural (I) |
| U124 | Furfuran (I) |
| U206 | D-Glucopyranose, 2-deoxy-2(3-methyl-3-nitrosoureido)- |
| U126 | 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) |
| 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 (I,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 | Malononitrile |
| U150 | Malphalan |
| U151 | Mercury |
| U152 | Methacrylonitrile (I,T) |
| U092 | *Methanamine, N-methyl-(I) |
| U029 | Methane, bromo- |
| U045 | Methane, chloro-(I,T) |
| U046 | Methane, chloromethoxy- |
| U068 | Methane, dibromo- |
| U080 | Methane, dichloro- |
| U075 | Methane, dichlorodifluoro- |
| U138 | Methane, iodo- |
| U119 | Methanesulfonic acid, ethyl ester |
| U211 | *Methane, tetrachloro- |
| U153 | Methanethiol (I,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 (I) |
| U155 | Methapyrilene |
| U154 | Methyl alcohol (I) |
| U029 | Methyl bromide |
| U186 | 1-Methylbutadiene (I) |
| U045 | Methyl chloride (I,T) |
| U156 | Methyl chlorocarbonate (I,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 (I,T) |
| U160 | Methyl ethyl ketone peroxide (R,T) |
| U138 | Methyl iodide |
| U161 | Methyl isobutyl ketone (I) |
| U162 | *Methyl methacrylate (I,T) |
| U163 | N-Methyl-N'-nitro-N-nitrosoguanidine |
| U161 | 4-Methyl-2-pentanone (I) |
| U164 | Methylthiouracil |
| U010 | Mitomycin C |
| U059 | 5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[(3-amino-2,3,- 6-trideoxy-alpha-L-lyxo-hexopyranosyl) oxyl]-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'-dimethyl-(1,1'-biphenyl)-4,4'diyl)]-bis(azo)bis(5-amino-4 hydroxy)-, tetrasodium salt |
| U166 | 1,4-Naphthaquinone |
| U167 | 1-Naphthylamine |
| U168 | 2-Naphthylamine |
| U167 | alpha-Naphthylamine |
| U168 | beta-Naphylamine |
| U026 | 2-Naphthylamine, N,N'-bis(2-chloromethyl)- |
| U169 | *Nitrobenzene (I,T) |
| U170 | *p-Nitrophenol |
| U171 | 2-Nitropropane (I) |
| U172 | N-Nitrosodi-n-butylamine |
| U173 | N-Nitrosodiethanolamine |
| U174 | N-Nitrosodiethylamine |
| 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

| EPA hazardous waste No. | Substance |
|---|---|
| U181 | 5-Nitro-o-toluidine |
| U193 | 1,2-Oxathiolane, 2,2-dioxide |
| U058 | 2H-1,3,2-Oxazaphosphorine, 2-[bis(2-chloroethyl) amino] tetrahydro-2-oxide |
| U115 | Oxirane (I,T) |
| U041 | *Oxirane, 2-(chloromethyl)- |
| U182 | Paraldehyde |
| U183 | Pentachlorobenzene |
| U184 | Pentachloroethane |
| U185 | Pentachloronitrobenzene |
| U242 | *Pentachlorophenol |
| U186 | 1,3-Pentadiene (I) |
| U187 | Phenacetin |
| U188 | *Phenol |
| U048 | Phenol, 2-chloro- |
| U039 | Phenol, 4-chloro-3-methyl- |
| U081 | Phenol, 2,4-dichloro- |
| U082 | Phenol, 2,6-dichloro- |
| U101 | *Phenol, 2,4-dimethyl- |
| U170 | *Phenol, 4-nitro- |
| U242 | *Phenol, pentachloro- |
| U212 | Phenol, 2,3,4,6-tetrachloro- |
| U230 | *Phenol, 2,4,5-trichloro- |
| U231 | *Phenol, 2,4,6-trichloro- |
| U137 | 1,10-(1,2-Phenylene)pyrene |
| U145 | Phosphonic acid, lead salt |
| U087 | Phosphorodithioic acid, O,O-diethyl-, S-methyl ester |
| U189 | Phosphorous sulfide (R) |
| U190 | Phthalic anhydride |
| U191 | 2-Picoline |
| U192 | Pronamide |
| U194 | 1-Propanamine (I,T) |
| U110 | 1-Propanamine, N-propyl-(I) |
| U066 | Propane, 1,2-dibromo-3-chloro- |
| U149 | Propanedinitrile |
| U171 | Propane, 2-nitro-(I) |
| U027 | Propane, 2,2'oxybis[2-chloro- |
| U193 | 1,3-Propane sultone |
| U235 | 1-Propanol, 2,3-dibromo-, phosphate (3:1) |
| U126 | 1-Propanol, 2,3-epoxy- |
| U140 | 1-Propanol, 2-methyl-(I,T) |
| U002 | 2-Propanone (I) |
| U007 | 2-Propenamide |
| U084 | *Propene, 1,3-dichloro- |
| U243 | 1-Propene, 1,1,2,3,3,3-hexachloro- |
| U009 | *2-Propenenitrile |
| U152 | 2-Propenenitrile, 2-methyl-(I,T) |
| U008 | 2-Propenoic acid (I) |
| U113 | 2-Propenoic acid, ethyl ester (I) |
| U118 | 2-Propenoic acid, 2-methyl-, ethyl ester |
| U162 | *2-Propenoic acid, 2-methyl-, methyl ester (I,T) |
| U233 | *Propionic acid, 2-(2,4,5-trichlorophenoxy)- |
| U194 | n-Propylamine (I,T) |
| U083 | *Propylene dichloride |
| U196 | Pyridine |
| U155 | Pyridine, 2-[(2-dimethylamino)ethyl)-2-thenylamino]- |
| U179 | Pyridine, hexahydro-N-nitroso- |
| U191 | Pyridine, 2-methyl- |
| U164 | 4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo- |
| U180 | Pyrrole, tetrahydro-N-nitroso- |
| U200 | Reserpine |
| U201 | *Resorcinol |
| U202 | Saccharin and salts |
| U203 | Safrole |
| U204 | Selenious acid |
| U204 | *Selenium dioxide |
| U205 | Selenium disulfide (R,T) |
| U015 | L-Serine, diazoacetate (ester) |
| U233 | *Silvex |
| U089 | 4,4'-Stilbenediol, alpha, alpha'-diethyl- |
| U206 | Streptozotocin |
| U135 | Sulfur hydride |
| U103 | Sulfuric acid, dimethyl ester |
| U189 | Sulfur phosphide (R) |
| U205 | Sulfur selenide (R,T) |
| U232 | *2,4,5-T |
| U207 | 1,2,4,5-Tetrachlorobenzene |
| U208 | 1,1,1,2-Tetrachloroethane |
| U209 | 1,1,2,2-Tetrachloroethane |
| U210 | Tetrachloroethylene |
| U212 | 2,3,4,6-Tetrachlorophenol |
| U213 | Tetrahydrofuran (I) |
| U214 | Thallium(I) acetate |
| U215 | Thallium(I) carbonate |
| U216 | Thallium(I) chloride |
| U217 | Thallium(I) nitrate |
| U218 | Thioacetamide |
| U153 | Thiomethanol (I,T) |
| U219 | Thiourea |
| U244 | Thiram |
| U220 | Toluene |
| U221 | Toluenediamine |
| U223 | Toluene diisocyanate (R,T) |
| U222 | o-Toluidine hydrochloride |
| U011 | 1H-1,2,4-Triazol-3-amine |
| U226 | 1,1,1-Trichloroethane |
| U227 | 1,1,2-Trichloroethane |
| U228 | *Trichloroethene |
| U228 | *Trichlorethylene |
| U121 | Trichloromonofluoromethane |
| U230 | *2,4,5-Trichlorophenol |
| U231 | *2,4,6-Trichlorophenol |
| U232 | *2,4,5-Trichlorophenoxyacetic acid |
| U234 | sym-Trinitrobenzene (R,T) |
| U182 | 1,3,5-Trioxane, 2,4,5-trimethyl- |
| U235 | Tris(2,3-dibromopropyl) phosphate |
| U236 | Trypan blue |
| U237 | Uracil, 5[bis(2-chloromethyl)amino]- |
| U237 | Uracil mustard |
| U043 | Vinyl chloride |
| U239 | *Xylene (I) |
| U200 | Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxy-benzoyl)oxy]-, methylester |
| P012 | *Arsenic(III) oxide |
| P011 | *Arsenic pentoxide |
| P011 | *Arsenic(V) oxide |
| P012 | *Arsenic trioxide |
| P038 | Arsine, diethyl- |
| P054 | Aziridine |
| P013 | *Barium cyanide |
| P024 | Benzenamine, 4-chloro- |
| P077 | Benzenamine, 4-nitro- |
| P028 | *Benzene, (chloromethyl)- |
| P042 | 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino) ethyl]- |
| P014 | Benzenethiol |
| P028 | *Benzyl chloride |
| P015 | Beryllium dust |
| P016 | Bis(chloromethyl) ether |
| P017 | Bromoacetone |
| P018 | Brucine |
| P021 | *Calcium cyanide |
| P123 | Camphene, octachloro- |
| P103 | Carbamimidoselenoic acid |
| P022 | *Carbon bisulfide |
| P022 | *Carbon disulfide |
| P095 | *Carbonyl chloride |
| P033 | *Chlorine cyanide |
| P023 | Chloroacetaldehyde |
| P024 | p-Chloroaniline |
| P026 | 1-(o-Chlorophenyl)thiourea |
| P027 | 3-Chloropropionitrile |
| P029 | Copper cyanides |
| P030 | Cyanides (soluble cyanide salts), not elsewhere specified |
| P031 | Cyanogen |
| P033 | *Cyanogen chloride |
| P036 | Dichlorophenylarsine |
| P037 | *Dieldrin |
| P038 | Diethylarsine |
| P039 | *O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate |
| P041 | Diethyl-p-nitrophenyl phosphate |
| P040 | O,O-Diethyl O-pyrazinyl phosphorothioate |
| P043 | Diisopropyl fluorophosphate |
| P044 | Dimethoate |
| P045 | 3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methyl- amino)carbonyl] oxime |
| P071 | *O,O-Dimethyl O-p-nitrophenyl phosphorothioate |
| P082 | Dimethylnitrosamine |
| P046 | alpha,alpha-Dimethylphenethylamine |
| P047 | 4,6-Dinitro-o-cresol and salts |
| P034 | 4,6-Dinitro-o-cyclohexylphenol |
| P048 | *2,4-Dinitrophenol |
| P020 | Dinoseb |
| P085 | Diphosphoramide, octamethyl- |
| P039 | *Disulfoton |
| P049 | 2,4-Dithiobiuret |
| P109 | Dithiopyrophosphonic acid, tetraethyl ester |
| P050 | *Endosulfan |
| P088 | Endothall |
| P051 | *Endrin |
| P042 | Epinephrine |
| P046 | Ethanamine,1,1-dimethyl-2-phenyl- |
| P084 | Ethenamine,N-methyl-N-nitroso- |
| P101 | Ethyl cyanide |
| P054 | Ethyleneimine |
| P097 | Famphur |
| P056 | Fluorine |
| P057 | Fluoroacetamide |
| P058 | Fluoroacetic acid, sodium salt |
| P065 | Fulminic acid, mercury (II) salt (R,T) |
| P059 | *Heptachlor |
| 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 |
| 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 |
| P060 | 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,endo-dimethanonaphthalene |
| P004 | *1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,exo-dimethanonaphthalene |
| P060 | Hexachlorohexahydro-exo,exo-dimethanonaphthalene |
| P062 | Hexaethyl tetraphosphate |
| P116 | Hydrazinecarbothioamide |
| P068 | Hydrazine, methyl- |
| P063 | *Hydrocyanic acid |
| P063 | *Hydrogen cyanide |
| P096 | Hydrogen phosphide |
| P064 | Isocyanic acid, methyl ester |
| P007 | 3(2H)-Isoxazolone,5-(aminomethyl)- |
| P092 | Mercury,(aceta.o-O)phenyl- |
| P065 | Mercury fulminate (R,T) |
| P016 | Methane,oxybis(chloro- |
| P112 | Methane, tetranitro-(R) |
| P118 | Methanethiol, trichloro- |
| P059 | *4,7-Methano-1H-indene,1,4,5,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- |
| P066 | Methomyl |
| P067 | 2-Methylaziridine |
| P068 | Methyl hydrazine |
| P064 | Methyl isocyanate |
| P069 | *2-Methyllactonitrile |
| P071 | *Methyl parathion |
| P072 | alpha-Naphthylthiourea |
| P073 | Nickel carbony |
| P074 | Nickel cyanide |
| P074 | Nickel(II) cyanide |
| P073 | Nickel tetracarbonyl |
| P075 | Nicotine and salts |
| P076 | Nitric oxide |
| P077 | p-Nitroaniline |
| P078 | *Nitrogen dioxide |
| P076 | Nitrogen(II) oxide |
| P078 | *Nitrogen(IV) oxide |
| P081 | Nitroglycerine (R) |
| P082 | N-Nitrosodimethylamine |
| P084 | N-Nitrosomethylvinylamine |
| P050 | *5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-Hexachloro cyclic sulfite |
| P085 | Octamethylpyrophosphoramide |
| P087 | Osmium oxide |
| P087 | Osmium tetroxide |
| P088 | 7-Oxabicyclo[2.2.1] heptane-2,3-dicarboxylic acid |
| P089 | *Parathion |
| P034 | Phenol, 2-cyclohexyl-4,6-dinitro- |
| P048 | *Phenol, 2,4-dinitro- |
| P047 | Phenol, 2,4-dinitro-6-methyl- |
| P020 | Phenol, 2,4-dinitro-6-(1-methylpropyl)- |
| P009 | Phenol, 2,4,6-trinitro-, ammonium salt (R) |
| P036 | Phenyl dichlorarsine |
| P092 | Phenylmercuric acetate |
| P093 | N-Phenylthiourea |
| P094 | Phorate |
| P095 | *Phosgene |
| P096 | Phosphine |
| P041 | Phosphoric acid, diethyl p-nitrophenyl ester |
| P044 | Phosphorodithioic acid, 0,0-dimethyl S-[2-(methyl-amino)-2-oxoethyl] ester |
| P043 | Phosphorofluoric acid, bis(l-methylethyl) ester |
| P094 | Phosphorothioic acid, O,O-diethyl S-(ethylthio)methyl ester |
| P089 | *Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester |
| P040 | Phosphorothioic acid, O-O-diethyl O-pyrazinyl ester |
| P097 | Phosophorothioic acid, O,O-dimethyl O-[p-((dimethyl-amino)-sulfonyl)phenyl) ester |
| P110 | *Plumbane, tetraethyl- |

### Specific Chemical Wastes—Continued

| EPA hazardous waste No. | Substance |
|---|---|
| P098 | *Potassium cyanide |
| P099 | Potassium silver cyanide |
| P070 | Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino) carbonyl] oxime |
| P101 | Propanenitrile |
| P027 | Propanenitrile, 3-chloro- |
| P069 | *Propanenitrile, 2-hydroxy-2-methyl- |
| P081 | 1,2,3-Propanetriol, trinitrate (R) |
| P017 | 2-Propanone, 1-bromo- |
| P102 | Propargyl alcohol |
| P003 | *2-Propenal |
| P005 | *2-Propen-1-ol |
| P067 | 1,2-Propylenimine |
| P102 | 2-Propyn-1-ol |
| P008 | 4-Pyridinamine |
| P075 | Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts |
| P111 | *Pyrophosphoric acid, tetraethyl ester |
| P103 | Selenourea |
| P104 | Silver cyanide |
| P105 | Sodium azide |
| P106 | *Sodium cyanide |
| P107 | Strontium sulfide |
| P108 | *Strychnidin-10-one, and salts |
| P018 | Strychnidin-10-one, 2,3-dimethoxy- |
| P108 | Strychnine and salts |
| P115 | *Sulfuric acid, thallium(I) salt |
| P109 | Tetraethyldithiopyrophosphate |
| P110 | *Tetraethyl lead |
| P111 | *Tetraethylpyrophosphate |
| P112 | Tetranitromethane (R) |
| P062 | Tetraphosphoric acid, hexaethyl ester |
| P113 | Thallic oxide |
| P113 | Thallium(III) oxide |
| P114 | Thallium(I) selenite |
| P115 | *Thallium(I) sulfate |
| P045 | Thiofanox |
| P049 | Thioimidodicarbonic diamide |
| P014 | Thiophenol |
| P116 | Thiosemicarbazide |
| P026 | Thiourea, (2-chlorophenyl)- |
| 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: tetrachlorethylene, 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 |
|---|---|
| F019 | Wastewater treatment sludges for the chemical conversion coating of aluminum. |
| F007 | Spent cyanide plating bath solutions from electroplating operations (except for precious metals electroplating spent cyanide plating bath solutions). |
| 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). |
| 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). |
| 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). |
| 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). |
| 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). |
| F015 | Spent cyanide bath solutions from mineral metals recovery operations. |
| K001 | Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol. |
| K002 | Wastewater treatment sludge from the production of chrome yellow and orange pigments. |
| K003 | Wastewater treatment sludge from the production of molybdate orange pigments. |
| K004 | Wastewater treatment sludge from the production of zinc yellow pigments. |
| K005 | Wastewater treatment sludge from the production of chrome green pigments. |
| K006 | Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated). |
| K007 | Wastewater treatment sludge from the production of iron blue pigments. |
| K008 | Oven residue from the production of chrome oxide green pigments. |
| K009 | Distillation bottoms from the production of acetaldehyde from ethylene. |
| K010 | Distillation side cuts from the production of acetaldehyde from ethylene. |
| K011 | Bottom stream from the wastewater stripper in the production of acrylonitrile. |
| K013 | Bottom stream from the acetonitrile column in the production of acrylonitrile. |
| K014 | Bottoms from the acetonitrile purification column in the production of acrylonitrile. |
| K015 | Still bottoms from the distillation of benzyl chloride. |
| K016 | Heavy ends or distillation residues from the production of carbon tetrachloride. |
| K017 | Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin. |
| K018 | Heavy ends from the fractionation column in ethyl chloride production. |
| K019 | Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production. |
| K020 | Heavy ends from the distillation of vinyl dichloride in vinyl chloride monomer production. |
| K021 | Aqueous spent antimony catalyst waste from fluoromethanes production. |
| K022 | Distillation bottom tars from the production of phenol/acetone from cumene. |
| K023 | Distillation light ends from the production of phthalic anhydride from naphthalene. |
| K024 | Distillation bottoms from the production of phthalic anhydride from naphthalene. |
| K093 | Distillation light ends from the production of phthalic anhydride from ortho-xylene. |
| K094 | Distillation bottoms from the production of phthalic anhydride from ortho-xylene. |

### Specific Chemical Wastes—Continued

| EPA hazardous waste No. | Substance |
|---|---|
| K025 | Distillation bottoms from the production of nitrobenzene by the nitration of benzene. |
| K026 | Stripping still tails from the production of methyl ethyl pyridines. |
| K027 | Centrifuge and distillation residues from toluene diisocyanate production. |
| K028 | Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane. |
| K029 | Waste from the product steam stripper in the production of 1,1,1-trichloroethane. |
| K095 | Distillation bottoms from the production of 1,1,1-trichloroethane. |
| K096 | Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane. |
| K030 | Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene. |
| K083 | Distillation bottoms from aniline production. |
| K103 | Process residues from aniline extraction from the production of aniline. |
| K104 | Combined wastewater streams generated from nitrobenzene/aniline production. |
| K085 | Distillation or fractionation column bottoms from the production of chlorobenzenes. |
| K105 | Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes. |
| K071 | Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used. |
| K073 | Chlorinated hydrocarbon waste from the purification step of the diaphram cell process using graphite anodes in chlorine production. |
| K106 | Wastewater treatment sludge from the mercury cell process in chlorine production. |
| K031 | By-product salts generated in the production of MSMA and cacodylic acid. |
| K032 | Wastewater treatment sludge from the production of chlordane. |
| K033 | Wastewater and scrub water and scrub water from the chlorination of cyclopentadiene in the production of chlordane. |
| K034 | Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane. |
| K097 | Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane. |
| K035 | Wastewater treatment sludges generated in the production of creosote. |
| K036 | Still bottoms from toluene reclamation distillation in the production of disulfoton. |
| K037 | Wastewater treatment sludges from the production of disulfoton. |
| K038 | Wastewater from the washing and stripping of phorate production. |
| K039 | Filter cake from filtration of diethylphosphorodithioic acid in the production of phorate. |
| K040 | Wastewater treatment sludge from the production of phorate. |
| K041 | Wastewater treatment sludge from the production of toxaphene. |
| K098 | Untreated process wastewater from the production to toxaphene. |
| K042 | Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T. |
| K043 | 2,6-Dichlorophenol waste from the production of 2,4-D |
| K099 | Untreated wastewater from the production of 2,4-D. |
| K044 | Wastewater treatment sludges from the manufacturing and processing of explosives. |
| K045 | Spent carbon from the treatment of wastewater containing explosives. |
| K046 | Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds. |
| K047 | Pink/red water from TNT operations. |
| K048 | Dissolved air flotation (DAF) float from the petroleum refining industry. |
| K049 | Slop oil emulsion solids from the petroleum refining industry. |
| K050 | Heat exchanger bundle cleaning sludge from the petroleum refining industry. |

**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 form 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. |

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