

EPA Listed Wastes

Table 1: Maximum concentration of contaminants for the "toxicity" characteristic, as determined by the TCLP ("D" list)			
HW No.	Contaminant	CAS No.	Regulatory Level (mg/L)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D0018	Benzene	71-43-2	0.5
D006	Cadmium	7440-43-9	1.0
D019	Carbon tetrachloride	56-23-5	0.5
D020	Chlordane	57-74-9	0.03
D021	Chlorobenzene	108-90-7	100.0
D022	Chloroform	67-66-3	6.0
D007	Chromium	7440-47-3	5.0
D023	o-Cresol	95-48-7	200.0**
D024	m-Cresol	108-39-4	200.0**
D025	p-Cresol	106-44-5	200.0**
D026	Cresol	-----	200.0**
D016	2,4-D	94-75-7	10.0
D027	1,4-Dichlorobenzene	106-46-7	7.5
D028	1,2-Dichloroethane	107-06-2	0.5
D029	1,1-Dichloroethylene	75-35-4	0.7
D030	2,4-Dinitrotoluene	121-14-2	0.13*
D012	Endrin	72-20-8	0.02
D031	Heptachlor	76-44-8	0.008
D032	Hexachlorobenzene	118-74-1	0.13*
D033	Hexachlorobutadiene	87-68-3	0.5
D034	Hexachloroethane	67-72-1	3.0
D008	Lead	7439-92-1	5.0
D013	Lindane	58-89-9	0.4
D009	Mercury	7439-97-6	0.2
D014	Methoxychlor	72-43-5	10.0
D035	Methyl ethyl ketone	78-93-3	200.0
D036	Nitrobenzene	98-95-3	2.0
D037	Pentachlorophenol	87-86-5	100.0
D038	Pyridine	110-86-1	5.0*
D010	Selenium	7782-49-2	1.0
D011	Silver	7740-22-4	5.0
D039	Tetrachloroethylene	127-18-4	0.7
D015	Toxaphene	8001-35-2	0.5
D040	Trichloroethylene	79-01-6	0.5
D041	2,4,5-Trichlorophenol	95-95-4	400.0
D042	2,4,6-Trichlorophenol	88-06-2	2.0
D017	2,4,5-TP (Silvex)	93-72-1	1.0
D043	Vinyl Chloride	74-01-4	0.2

* Quantitation limit is greater than the calculated regulatory level. The quantitative limit therefore becomes the regulatory level.

** If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 milligrams per liter (mg/L).

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Table 2: Hazardous Waste Generated By Generic Processes ("F" List)		
EPA Waste No.	Hazardous waste	Hazard code
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing that contain, before use, a total of 10% or more (by volume) of 1 or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F002	The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2 trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloro-ethane; all spent solvent mixtures/blends containing, before use, a total of 10% or more (by volume) of 1 or more of the above halogenated solvents or those listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F003	The following spent non-halogenated* solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, 1 or more of the above non-halogenated solvents, and a total of 10% or more (by volume) of 1 or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I)
F004	The following spent non-halogenated solvents: cresols, cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of 10% or more (by volume) of 1 or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of those spent solvents and spent solvent mixtures.	(T)
F005	The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of 10% or more (by volume) of 1 or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I,T)*
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.	(T)
F007	Spent cyanide plating bath solutions from electroplating operations.	(R,T)
F008	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.	(R,T)
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.	(R,T)
F010	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	(R,T)
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.	(R,T)

(continued)

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Table 2: Hazardous Waste Generated By Generic Processes ("F" List) (continued)		
EPA Waste No.	Hazardous waste	Hazard code
F012	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process.	(T)
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.	(T)
F020	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol.)	(H)
F021	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.	(H)
F022	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.	(H)
F023	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5-trichlorophenol.)	(H)
F024	Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from 1 to and including 5, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, waste-water treatment sludges, spent catalysts, and wastes listed in RCRA Sections 261.31 or 261.32).	(T)
F025	Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from 1 to and including 5, with varying amounts and positions of chlorine substitution.	(T)
F026	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.	(H)
F027	Discarded unused formulations containing tri-, tetra-, or pentachlorophenol discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)	(H)
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA hazardous waste numbers F020, F021, F022, F023, F026, and F027.	(T)

(continued)

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Table 2: Hazardous Waste Generated By Generic Processes ("F" List) (continued)		
EPA Waste No.	Hazardous waste	Hazard code
F032	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with RCRA Section 261.35 or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
F034	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
F035	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
F037	Petroleum refinery primary oil/water/ solids separation sludge - Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in RCRA Section 261.31(b)(2) (including sludges generated in 1 or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing.	(T)
F038	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge - Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in dissolved air flotation (DAF) units. Sludges generated in storm water units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in RCRA Section 261.31(b)(2) (including sludges and floats generated in 1 or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing.	

(continued)

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Table 2: Hazardous Waste Generated By Generic Processes ("F" List) (continued)		
EPA Waste No.	Hazardous waste	Hazard code
F039	Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than 1 restricted waste classified as hazardous under Subpart D (Leachate resulting from the disposal of 1 or more of the following EPA hazardous wastes and no other hazardous wastes retains its EPA hazardous waste number(s): F020, F021, F022, F026, F027, and/or F028).	(T)

Notes:

- * (I,T) should be used to specify mixtures containing ignitable and toxic constituents.
- For the purposes of the F037 and F038 listings, oil/water/solids is defined as oil and/or water and/or solids.
- For the purposes of the F037 and F038 listings, aggressive biological treatment units are defined as units that employ 1 of the following 4 treatment methods: activated sludge; trickling filter; rotating biological contactor for the continuous accelerated biological oxidation of wastewaters; or high-rate aeration. High-rate aeration is a system of surface impoundments or tanks in which intense mechanical aeration is used to completely mix the wastes and enhance biological activity. High-rate aeration units employ a minimum of 6 horsepower per million gallons of treatment volume, and either the hydraulic retention time of the unit is no longer than 5 days, or the hydraulic retention time is no longer than 30 days and the unit does not generate a sludge that is a hazardous waste by the toxicity characteristic. Generators and TSD facilities have the burden of proving that their sludges are exempt from listing as F037 and F038 wastes under this definition. Generators and TSD facilities must maintain, in their operating or other onsite records, documents and data sufficient to prove that the unit is an aggressive biological treatment unit and the sludges sought to be exempted were actually generated in the aggressive biological treatment unit.

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Table 3: Hazardous Waste From Specific Sources ("K" list)

Wood Preservation

K001(T) Bottom sediment sludge from the treatment of wastewaters from wood-preserving processes that use creosote and/or pentachlorophenol.

Inorganic Pigments

K002(T) Wastewater treatment sludge from the production of chrome yellow and orange pigments.
K003(T) Wastewater treatment sludge from the production of molybdate orange pigments.
K004(T) Wastewater treatment sludge from the production of zinc yellow pigments.
K005(T) Wastewater treatment sludge from the production of chrome green pigments.
K006(T) Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
K007(T) Wastewater treatment sludge from the production of iron blue pigments.
K008(T) Oven residues from the production of chrome oxide green pigments.

Organic Chemicals

K009(T) Distillation bottoms from the production of acetaldehyde from ethylene.
K010(T) Distillation side cuts from the production of acetaldehyde from ethylene.
K011(R,T) Bottom stream from the wastewater stripper in the production of acrylonitrile.
K013(R,T) Bottom stream from the acrylonitrile column in the production of acrylonitrile.
K014(T) Bottoms from the acetonitrile purification column in the production of acrylonitrile.
K015(T) Still bottoms from the distillation of benzyl chloride.
K016(T) Heavy ends or distillation residues from the production of carbon tetrachloride.
K017(T) Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
K018(T) Heavy ends from the fractionation column in ethyl chloride production.
K019(T) Heavy ends from the distillation of ethylene dichloride production.
K020(T) Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
K021(T) Aqueous spent antimony catalyst waste from fluouromethanes production
K022(T) Distillation bottom tars from the production of phenol/acetone from cumene.
K023(T) Distillation light ends from the production of phthalic anhydride from naphthalene.
K024(T) Distillation bottoms from the production of phthalic anhydride from naphthalene.
K025(T) Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
K026(T) Stripping still tails from the production of methyl ethyl pyridines.
K027(R,T) Centrifuge and distillation residues from toluene diisocyanate production.
K028(T) Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.
K029(T) Waste from the product steam stripper in the production of 1,1,1-trichloroethane.
K030(T) Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.
K083(T) Distillation bottoms from aniline production.
K085(T) Distillation or fractionation column bottoms from the production of chlorobenzenes.
K093(T) Distillation light ends from the production of phthalic anhydride from ortho-xylene.
K094(T) Distillation bottoms from the production of phthalic anhydride from ortho-xylene.
K095(T) Distillation bottoms from the produciton of 1,1,1-trichloroethane.
K103(T) Process residues from aniline extraction from the production of aniline.
K104(T) Combined wastewater streams from generated from nitrobenzene/aniline production.
K105(T) Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.
K107(C,T) Column bottoms from product separation from the production of 1,1-dimethyl-hydrazine (UDMH) from carboxylic acid hydrazines.

(continued)

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Organic Chemicals (continued)

- K108(I,T) Condensed column overheads from product separation and condensed reactor vent gases for the production of UDMH from carboxylic acid hydrazides.
- K109(T) Spent filter cartridges from the product purification from the production of UDMH from carboxylic acid hydrazides.
- K110(T) Condensed column overheads from intermediate separation from the production of UDMH from carboxylic acid hydrazides.
- K111(C,T) Product washwaters from the production of dinitrotoluene via nitration of toluene.
- K112(T) Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
- K113(T) Condensed liquid light ends from the purification of toluenediamine via hydrogenation of dinitrotoluene.
- K114(T) Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
- K115(T) Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
- K116(T) Organic condensate from the solvent recovery in the production of toluene diisocyanate via phosgenation of toluenediamine.
- K117(T) Wastewater from reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethylene.
- K118(T) Spent adsorbent solids from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethylene.
- K136(T) Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethylene.
- K149(T) Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzyl chlorides, and compounds with mixtures of these functional groups. (This waste does not include still bottoms from the distillation of benzyl chloride.)
- K150(T) Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzyl chlorides, and compounds with mixtures of these functional groups.
- K151(T) Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzyl chlorides, and compounds with mixtures of these functional groups.

Inorganic Chemicals

- K071(T) Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.
- K073(T) Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.
- K106(T) Wastewater treatment sludge from the mercury cell process in chlorine production.

Pesticides

- K031(T) By-product salts generated in the production of Methanearsonic Acid (MSMA) in the production of chlordane.
- K034(T) Filter solids from the filtration of hexachlorocyclapentadiene in the production of chlordane.
- K035(T) Wastewater treatment sludges generated in the production of creosote.
- K036(T) Still bottoms from toluene reclamation distillation in the production of disulfoton.
- K037(T) Wastewater treatment sludges from the production of disulfoton
- K038(T) Wastewater from the washing and stripping of phorate production.
- K039(T) Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.

(continued)

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Pesticides (continued)

- K040(T) Wastewater treatment sludge from the production of phorate.
- K041(T) Wastewater treatment sludge from the production of toxaphene.
- K042(T) Heavy ends of distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.
- K043(T) 2,6-Dichlorophenol waste from the production of 2,4-D.
- K097(T) Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.
- K098(T) Untreated process wastewater from the production of toxaphene.
- K099(T) Untreated wastewater from the production of 2,4-D.
- K123(T) Process wastewater (including supermates, filtrates, and washwaters) from the production of ethylebisdithiocarbamic acid and its salt.
- K124(C,T) Reactor vent scrubber water from the production of ethylebisdithiocarbamic acid and its salts.
- K125(T) Filtration, evaporation, and centrifugation solids from the production of ethylebisdithiocarbamic acid and its salts.
- K126(T) Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylebisdithiocarbamic acid and its salts.
- K131(C,T) Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.
- K132(T) Spent absorbent and wastewater separator solids from the production of methyl bromide.

Explosives

- K044(R) Wastewater treatment sludges from the manufacturing and processing of explosives.
- K045(R) Spent carbon from the treatment of wastewater containing explosives.
- K046(T) Wastewater treatment sludges from the manufacturing, formulation, and loading of lead-based initiating compounds.
- K047(R) Pink/red water from trinitrotoluene (TNT) operations.

Petroleum refining

- K048(T) DAF float from the petroleum industry.
- K049(T) Slop oil emulsion solids from the petroleum refining industry.
- K050(T) Heat exchanger bundle cleaning sludge from the petroleum refining industry.
- K051(T) American Petroleum Institute (API) separator sludge from the petroleum refining industry.
- K052(T) Tank bottoms (leaded) from the petroleum refining industry.

Iron and Steel

- K061(T) Emission control dust/sludge from the primary production of steel in electric furnaces.
- K062(C,T) Spent pickle liquor generated by steel finishing operations from facilities within the iron and steel industry (Standard Industrial Classification (SIC) codes 331 and 332).

Primary Copper

- K064(T) Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.

Primary Lead

- K065(T) Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.

Primary Zinc

- K066(T) Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.

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Primary Aluminum

K088(T) Spent potliners from primary aluminum reduction.

Ferroalloys

K090(T) Emission control dust or sludge from ferrochromiumsilicon production.

K091(T) Emission control dust or sludge from ferrochromium production.

Secondary Lead

K069(T) Emission control dust/sludge from secondary lead smelting. (NOTE: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action affecting this stay, EPA will publish a notice of the action in the *Federal Register*.)

K100(T) Waste leaching solution from acid leaching of emission control dust sludge from secondary lead smelting.

Veterinary Pharmaceuticals

K084(T) Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.

K101(T) Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.

K102(T) Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.

Ink Formulation

K086(T) 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.

Coking

K060(T) Ammonia still lime sludge from coking operations.

K087(T) Decanter tank tar sludge from coking operations.

K141(T) Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke from coal or the recovery of coke byproducts produced from coal. This listing does not include K087 (decanter tank tar sludges from coking operations).

K142(T) Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.

K143(T) Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.

K144(T) Wastewater sump residues from light oil refining, including but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.

K145(T) Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.

K147(T) Tar storage tank residues from coal tar refining.

K148(T) Residues from coal tar distillation, including but not limited to, still bottoms.

Key: (T) = toxic; (C) = corrosive; (R) = reactive.

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Table 4: Acutely Hazardous Waste "P" List		
HW No.	CAS No.	Substance
P023	107-20-0	Acetaldehyde, chloro
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-
P057	640-19-7	Acetamide, 2-fluoro
P058	62-74-8	Acetic acid, fluoro, sodium salt
P002	591-08-2	1-Acetyl-2-thiourea
P003	107-02-8	Acrolein
P070	116-06-2	Aldicarb
P004	309-00-2	Aldrin
P005	107-18-6	Allyl alcohol
P006	20859-73-8	Aluminum phosphide (R,T)
P007	2763-96-4	5-(Aminomethyl)-3-isoxazolol
P008	504-24-5	4-Aminopyridine
P009	131-74-8	Ammonium picrate (R)
P119	7803-55-6	Ammonium vanadate
P099	506-61-6	Argentate(1-), bis(cyano-C)-potassium
P010	7778-39-4	Arsenic Acid H(3)AsO(4)
P012	1327-53-3	Arsenic oxide As(2)O(3)
P011	1303-28-2	Arsenic pentoxide
P012	1327-53-3	Arsenic trioxide
P038	692-42-2	Arsine, diethyl-
P036	696-28-6	Arsonous dichloride, phenyl-
P054	151-56-4	Aziridine
P067	75-55-8	Aziridine, 2-methyl-
P013	542-62-1	Barium cyanide
P024	106-47-8	Benzenamine, 4-chloro-
P077	100-01-6	Benzenamine, 4-nitro-
P028	100-44-7	Benzene, (chloromethyl)-
P042	51-43-4	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-, (R)-
P046	122-09-8	Benzeneethanamine, alpha, alpha-dimethyl-
P014	108-98-5	Benzenethiol
P001	[1]81-81-2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)- and salts when present at concentrations greater than 0.3%
P028	100-44-7	Benzyl chloride
P015	7440-41-7	Beryllium Powder
P017	598-31-2	Bromoacetone
P018	357-57-3	Brucine
P045	39196-18-4	2-Butanone, 3,3-dimethyl-1 -(methylthio)-, O-[methylamino] carbonyl] oxime
P021	592-01-8	Calcium cyanide
P022	75-15-0	Carbon disulfide
P095	75-44-5	Carbonic dichloride
P023	107-20-0	Chloroacetaldehyde
P024	106-47-8	p-Chloroaniline
P026	5344-82-1	1-(o-Chlorophenyl)thiourea

(continued)

EPA Listed Wastes

Table 4: Acutely Hazardous Waste "P" List (continued)		
HW No.	CAS No.	Substance
P027	542-76-7	3-Chloropropionitrile
P029	544-92-3	Copper cyanide
P030	-----	Cyanides (soluble cyanide salts), not otherwise specified
P031	460-19-5	Cyanogen
P033	506-77-4	Cyanogen chloride
P034	131-89-5	2-Cyclohexyl-4,6-dinitrophenol
P016	542-88-1	Dichloromethyl ether
P036	696-28-6	Dichlorophenylarsine
P037	60-57-1	Dieldrin
P038	692-42-2	Diethylarsine
P041	311-45-5	Diethyl-p-nitrophenyl phosphate
P040	297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate
P043	55-91-4	Diisopropylfluorophosphate (DFP)
P004	309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4beta,5alpha,8alpha,8beta)-
P060	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4beta,5beta,8beta,8beta)-
P037	60-57-1	2,7:3,6-Dimethanonaphth[2,3b]oxirane,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)-
P051	72-20-5	2,7:3,6-Dimethanonaphth[2,3b] oxirine,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro (1alpha,2beta,2beta,3alpha,6alpha,6beta,7beta,7alpha)-, & metabolites
P044	60-51-5	Dimethoate
P046	122-09-8	alpha, alpha-Dimethylphenethylamine
P047	[1]534-52-1	4,6-Dinitro-o-cresol, and salts
P048	51-28-5	2,4-Dinitrophenol
P020	88-85-7	Dinoseb
P085	152-16-9	Diphosphoramidate, octamethyl-
P111	107-49-3	Diphosphoric acid, tetraethyl ester
P039	298-04-4	Disulfoton
P049	541-53-7	Dithiobiuret
P050	115-29-7	Endosulfan
P088	145-73-3	Endothall
P051	72-20-8	Endrin, & metabolites
P042	51-43-4	Epinephrine
P031	460-19-5	Ethanedinitrile
P066	16752-77-5	Ethanimidothioic acid, N[[[(methylamino) carbonyl]oxy]-, methyl ester
P101	107-12-0	Ethyl cyanide
P054	151-56-4	Ethyleneimine
P097	52-85-7	Famphur
P056	7782-41-4	Fluorine

(continued)

EPA Listed Wastes

Table 4: Acutely Hazardous Waste "P" List (continued)		
HW No.	CAS No.	Substance
P057	640-19-7	Fluoroacetamide
P058	62-74-8	Fluoroacetic acid, sodium salt
P065	628-86-4	Fluminic acid, mercury(2+) salt (R,T)
P059	76-44-8	Heptachlor
P062	757-58-4	Hexaethyl tetraphosphate
P116	79-19-6	Hydrazinecarbothioamide
P068	80-34-4	Hydrazine, methyl-
P063	74-90-8	Hydrocyanic acid (Hydrogen cyanide)
P096	7803-51-2	Hydrogen phosphide
P060	465-73-6	Isodrin
P007	2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-
P092	62-38-4	Mercury, (acetato-O)phenyl
P065	628-86-4	Mercury fulminate (R,T)
P082	62-75-9	Methanamine, N-methyl-N-nitroso-
P064	624-83-9	Methane, isocyanato-
P016	542-88-1	Methane, oxybis[chloro-
P112	509-14-8	Methane, tetranitro- (R)
P118	75-70-7	Methanethiol, trichloro-
P050	115-29-7	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide
P059	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro
P066	16752-77-5	Methomyl
P068	60-34-4	Methyl hydrazine
P064	624-83-9	Methyl isocyanate
P069	75-86-5	2-Methylactonitrile
P071	298-00-0	Methyl parathion
P072	86-88-4	alpha-Naphthylthiourea
P073	13463-39-3	Nickel carbonyl
P074	557-19-7	Nickel cyanide
P075	[1]54-11-5	Nicotine and salts
P076	10102-43-9	Nitric oxide
P077	100-01-6	p-Nitroaniline
P078	10102-44-0	Nitrogen dioxide
P076	10102-43-9	Nitrogen oxide NO
P081	55-63-0	Nitroglycerine (R)
P082	62-75-9	N-Nitrosomethylamine
P084	4549-40-0	N-Nitrosomethylvinylamine
P085	152-16-9	Octamethylpyrophosphoramidate
P087	20816-12-0	Osmium tetroxide)
P088	145-73-3	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
P089	56-38-2	Parathion
P034	131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-
P048	51-28-5	Phenol, 2,4-dinitro-

(continued)

EPA Listed Wastes

Table 4: Acutely Hazardous Waste "P" List (continued)		
HW No.	CAS No.	Substance
P047	(1) 534-52-1	Phenol, 2-methyl-4,6-dinitro- and salts
P020	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-
P009	131-74-8	Phenol, 2,4,6-trinitro-, ammonium salt (R)
P092	62-38-4	Phenylmercury acetate
P093	103-85-5	Phenylthiourea
P094	298-02-2	Phorate
P095	75-44-5	Phosgene
P096	7803-51-2	Phosphine
P041	311-45-5	Phosphoric acid, diethyl 4-nitrophenyl ester
P039	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl]ester
P094	296-04-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester
P044	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
P043	55-91-4	Phosphorofluoridic acid, bis-(1-methylethyl) ester
P089	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester
P040	297-92-2	Phosphorodithioic acid, O,O-diethyl O-pyrazinyl ester
P097	52-85-7	Phosphorodithioic acid, O,O,4 [(diethylamino)sulfonyl]phenyl]O,O-dimethyl ester
P071	296-00-0	Phosphorodithioic acid, O,O-dimethyl O-(4-nitrophenyl)ester
P110	78-00-2	Plumbane, tetraethyl-
P098	151-50-8	Potassium cyanide
P099	506-61-6	Potassium silver cyanide
P070	116-06-3	Propanal, 2-methyl-2-(methylthio)-,O-[(methylamino)carbonyl] oxime
P101	107-12-0	Propanenitrile
P027	542-76-7	Propanenitrile,3-chloro-
P069	75-86-5	Propanenitrile, 2-hydroxy-2-methyl-
P081	55-63-0	1,2,3-Propanetriol, trinitrate (R)
P017	598-31-2	2-Propanone, 1-bromo-
P102	107-19-7	Propargyl alcohol
P003	107-02-8	2-Propenal
P005	107-18-6	2-Propen-1-ol
P067	75-55-8	1,2-Propylenimine
P102	107-19-7	2-Propyn-1-ol
P008	504-24-5	4-Pyridinamine
P075	[1]54-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, and salts
P114	12039-52-0	Selenious acid, dithallium(1+) salt
P103	630-10-4	Selenourea
P104	506-64-9	Silver cyanide
P105	26628-22-8	Sodium azide
P106	143-33-9	Sodium cyanide
P108	[1]57-24-9	Strychnidin-10-one (Strychnine), and salts
P018	357-57-3	Strychnidin-10-one, 2,3-dimethoxy-
P115	7446-18-6	Sulfuric acid, dithallium(1+) salt
P109	3689-24-5	Tetraethyldithiopyrophosphate

(continued)

EPA Listed Wastes

Table 4: Acutely Hazardous Waste "P" List (continued)		
HW No.	CAS No.	Substance
P110	78-00-2	Tetraethyl lead
P111	107-49-3	Tetraethyl pyrophosphate
P112	509-14-8	Tetranitromethane (R)
P062	757-58-4	Tetraphosphoric acid, hexaethyl ester
P113	1314-32-5	Thallic oxide
P114	12039-52-0	Thallium(I) selenite
P115	7446-18-6	Thallium(I) sulfate
P109	3689-24-5	Thiodiphosphoric acid, tetraethyl ester
P045	39196-18-4	Thiofanox
P049	541-53-7	Thiomidodicarbonic diamide [(H(2)N)C(S)](2)NH
P014	108-98-5	Thiophenol
P116	79-19-6	Thiosemicarbazide
P026	5344-82-1	Thiourea, (2-chlorophenyl)-
P072	86-88-4	Thiourea, 1-naphthalenyl-
P093	103-85-5	Thiourea, phenyl-
P123	8001-35-2	Toxaphene
P118	75-70-7	Trichloromethanethiol
P119	7803-55-6	Vanadic acid, ammonium salt
P120	1314-62-1	Vanadium pentoxide
P084	4549-40-0	Vinylamine, N-methyl-N-nitroso
P001	[1]81-81-2	Warfarin, & salts, when present at concentrations greater than 0.3%
P121	557-21-1	Zinc cyanide
P122	1314-84-7	Zinc phosphide Zn(3)P(2), when present at concentrations greater than 10% (R,T)

Notes:

Key: T = toxicity; R = reactivity; I = ignitability; C = corrosivity. Absence of a letter indicates that the compound is only listed for toxicity.

[1] CAS No. given for parent compound only.

(f) The commercial chemical products, manufacturing chemical intermediates, or off-specification commercial chemical products referred to above are identified as toxic wastes (T), unless otherwise designated, and are subject to the SQG exclusion defined in 40 CFR 261.5(a) and (g).

EPA Listed Wastes

Table 5. Hazardous Waste "U" List		
Hazardous Waste #	CAS No.	Substance
U001	75-07-0	Acetaldehyde (I)
U034	75-87-6	Acetaldehyde, trichloro-
U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-
U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-
U240	(1)94-75-7	Acetic acid, (2-4-dichlorophenoxy)-salts & esters
U112	141-78-6	Acetic acid, ethylester (I)
U144	301-04-2	Acetic acid, lead(2+) salt
U214	563-68-8	Acetic acid, thallium(1+) salt See 93-76-5 Acetic acid, (2,4,5-trichlorophenoxy)-F027
U002	67-64-1	Acetone (I)
U003	75-05-8	Acetonitrile (I,T)
U004	98-86-2	Acetophenone
U005	53-96-3	2-Acetylaminofluorene
U006	75-36-5	Acetylchloride (C,R,T)
U007	79-06-1	Acrylamide
U008	79-10-7	Acrylic acid (I)
U009	107-13-1	Acrylonitrile
U011	61-82-5	Amitrole
U012	62-53-3	Aniline (I,T)
U136	75-60-5	Arsinic acid, dimethyl
U014	492-80-8	Auramine
U015	115-02-6	Azaserine
U010	50-07-7	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-, [1aS-(1aalpha,8beta,8aalpha,8balph)]-
U157	50-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-
U016	225-51-4	Benz(c)acridine
U017	98-87-3	Benzalchloride
U192	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-diethyl-2-propynyl)-
U018	56-55-3	Benz[a]anthracene
U094	57-97-6	Benz[a]anthracene, 7,12-dimethyl-
U012	62-53-3	Benzenamine (1,T)
U014	492-80-8	Benzenamine, 4,4-carbonimidoylbis (N,N-dimethyl-
U049	3165-93-3	Benzenamine, 4-chloro-2-methyl-hydrochloride
U093	60-11-7	Benzenamine, N,N-dimethyl-4-(phenylazo)-
U328	95-53-4	Benzenamine, 2-methyl-
U353	106-49-0	Benzenamine, 4-methyl-
U158	101-14-4	Benzenamine, 4,4'-methylenebis[2-chloro-
U222	636-21-5	Benzenamine, 2-methyl-, hydrochloride
U181	99-55-8	Benzenamine, 2-methyl-5-nitro
U019	71-43-2	Benzene (I,T)
U038	510-15-6	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-ethylester
U030	101-55-3	Benzene, 1-bromo-4-phenoxy-
U035	305-03-3	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-
U037	108-90-7	Benzene, chloro
U221	25376-45-8	Benzenediamine, ar-methyl

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U028	117-81-7	1,2-Benzenedicarboxylic acid,bis(2-ethylhexyl)ester
U069	84-74-2	1,2-Benzenedicarboxylic acid,dibutylester
U088	84-66-2	1,2-Benzenedicarboxylic acid,diethylester
U102	131-11-3	1,2-Benzenedicarboxylic acid,dimethylester
U107	117-84-0	1,2-Benzenedicarboxylic acid,dioctyl
U070	95-50-1	Benzene,1,2-dichloro-
U071	541-73-1	Benzene,1,3-dichloro-
U072	106-46-7	Benzene,1,4-dichloro-
U060	72-54-8	Benzene,1,1'-(2,2-dichloroethylidene)bis[4-chloro-
U017	98-87-3	Benzene,(dichloromethyl)-
U223	26471-62-5	Benzene,1,3-diisocyanatomethyl-(R,T)
U239	1330-20-7	Benzene,dimethyl-(I,T)
U201	108-46-3	1,3-Benzenediol
U127	118-74-1	Benzene,hexachloro-
U056	110-82-7	Benzene,hexahydro-(I)
U220	108-88-3	Benzene,methyl-
U105	121-14-2	Benzene,1-methyl-2,4-dinitro-
U106	606-20-2	Benzene,2-methyl-1,3-dinitro-
U055	98-82-8	Benzene,(1-methylethyl)-(I)
U169	98-95-3	Benzene, nitro-
U183	608-93-5	Benzene, pentachloro-
U185	82-68-8	Benzene, pentachloronitro-
U020	98-09-9	Benzene sulfonic acid chloride (C,R)
U020	98-09-9	Benzene sulfonyl chloride (C,R)
U207	95-94-3	Benzene,1,2,4,5-tetrachloro-
U061	50-29-3	Benzene,1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-
U247	72-43-5	Benzene,1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-
U023	98-07-7	Benzene,(trichloromethyl)-
U234	99-35-4	Benzene,1,3,5-trinitro-
U021	92-87-5	Benzidine
U202	(1)81-07-2	1,2-Benzisothiazol-3(2H)-one,1,1-dioxide, and salts
U203	94-59-7	1,3-Benzodioxole,5-(2-propenyl)-
U141	120-58-1	1,3-Benzodioxole,5-(1-propenyl)-
U090	94-58-6	1,3-Benzodioxole,5-propyl-
U064	189-55-9	Benzo[rs]pentaphene
U248	(1)81-81-2	2H-1-Benzopyran-2-one,4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less
U022	50-32-8	Benzo[a]pyrene
U197	106-51-4	p-Benzoquinone
U023	96-07-7	Benzotrichloride(C,R,T)
U085	1464-53-5	2,2'-Bioxirane
U021	92-87-5	[1,1'-Biphenyl]-4,4'-diamine
U073	91-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-
U091	119-90-4	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-
U095	119-93-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-
U225	75-25-2	Bromoform
U030	101-55-3	4-Bromophenyl phenyl ether

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U128	87-68-3	1,3-Butadiene,1,1,2,3,4,4-hexachloro-
U172	924-16-3	1-Butanamine,N-butyl-N-nitroso-
U031	71-36-3	1-Butanol (I)
U159	78-93-3	2-Butanone (I,T)
U160	1338-23-4	2-Butanone peroxide (R,T)
U053	4170-30-3	2-Butenal
U074	764-41-0	2-Butene,1,4-dichloro-(I,T)
U143	303-34-4	2-Butenoic acid,2-methyl-,7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-ylester,[1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-
U031	71-36-3	n-Butylalcohol (I)
U136	75-60-5	Cacodylic acid
U032	13765-19-0	Calcium chromate
U238	51-79-6	Carbamic acid,ethylester
U178	615-53-2	Carbamic acid,methylnitroso-,ethylester
U097	79-44-7	Carbamic chloride,dimethyl
U114	(1)111-54-6	Carbamodithioic acid,1,2-ethanediybis-,saltsandesters
U062	2303-16-4	Carbamothioic acid,bis(1-methylethyl)-,S-(2,3-dichloro-2-propenyl)ester
U215	6533-73-9	Carbonic acid,dithallium(1+)salt
U033	353-50-4	Carbonic difluoride
U156	79-22-1	Carbonochloridic acid,methylester (I,T)
U033	353-50-4	Carboxyfluoride (R,T)
U211	56-23-5	Carbon tetrachloride
U034	75-87-6	Chloral
U035	305-03-3	Chlorambucil
U036	57-74-9	Chlordane, alpha and gamma isomers
U026	494-03-1	Chlornaphazin
U037	108-90-7	Chlorobenzene
U038	510-15-6	Chlorobenzilate
U039	59-50-7	p-Chloro-m-cresol
U042	110-75-8	2-Chloroethyl vinyl ether
U044	67-66-3	Chloroform
U046	107-30-2	Chloromethyl methyl ether
U047	91-58-7	beta-Chloronaphthalene
U048	95-57-8	o-Chlorophenol
U049	3165-93-3	4-Chloro-o-toluidine, hydrochloride
U032	13765-19-0	Chromic acid,H(2)CrO(4)calcium salt
U050	218-01-9	Chrysene
U051	-	Creosote
U052	1319-77-3	Cresol(Cresylicacid)
U053	4170-30-3	Crotonaldehyde
U055	98-82-8	Cumene(I)
U246	506-68-3	Cyanogenbromide (CN)Br
U197	106-51-4	2,5-Cyclohexadiene-1,4-dione
U056	110-82-7	Cyclohexane (I)

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U129	58-89-9	Cyclohexane,1,2,3,4,5,6-hexachloro-,(1alpha,2alpha,3beta,4alpha,5alpha, 6beta)-
U057	108-94-1	Cyclohexanone(I)
U130	77-47-4	1,3-Cyclopentadiene,1,2,3,4,5,5-hexa-chloro-
U058	50-18-0	Cyclophosphamide
U240	(1) 94-75-7	2,4-D,salts and esters
U059	20830-81-3	Daunomycin
U060	72-54-8	DDD
U061	50-29-3	DDT
U062	2303-16-4	Diallate
U063	53-70-3	Dibenz[a,h]anthracene
U064	189-55-9	Dibenzo[a,i]pyrene
U066	96-12-8	1,2-Dibromo-3-chloropropane
U069	84-74-2	Dibutylphthalate
U070	95-50-1	o-Dichlorobenzene
U071	541-73-1	m-Dichlorobenzene
U072	106-46-7	p-Dichlorobenzene
U073	91-94-1	3,3'-Dichlorobenzidine
U074	764-41-0	1,4-Dichloro-2-butene (I,T)
U075	75-71-8	Dichlorodifluoromethane
U078	75-35-4	1,1-Dichloroethylene
U079	156-60-5	1,2-Dichloroethylene
U025	111-44-4	Dichloroethyl ether
U027	108-60-1	Dichloroisopropyl ether
U024	111-91-1	Dichloromethoxyethane
U081	120-83-2	2,4-Dichlorophenol
U082	87-65-0	2,6-Dichlorophenol
U084	542-75-6	1,3-Dichloropropene
U085	1464-53-5	1,2:3,4-Diepoxybutane (I,T)
U108	123-91-1	1,4-Diethyleneoxide
U028	117-81-7	Diethylhexylphthalate
U086	1615-80-1	N,N'-Diethylhydrazine
U087	3288-58-2	O,O-DiethylS-methyldithiophosphate
U088	84-66-2	Diethylphthalate
U089	56-53-1	Diethylstilbestrol
U090	94-58-6	Dihydrosafrole
U091	119-90-4	3,3'-Dimethoxybenzidine
U092	124-40-3	Dimethylamine (I)
U093	60-11-7	p-Dimethylaminoazo benzene
U094	57-97-6	7,12-Dimethylbenz[a]anthracene
U095	119-93-7	3,3'-Dimethylbenzidine
U096	80-15-9	alpha,alpha-Dimethylbenzylhydroperoxide (R)
U097	79-44-7	Dimethylcarbamoylchloride
U098	57-14-7	1,1-Dimethylhydrazine
U099	540-73-8	1,2-Dimethylhydrazine
U101	105-67-9	2,4-Dimethylphenol
U102	131-11-3	Dimethyl phthalate

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U103	77-78-1	Dimethyl sulfate
U105	121-14-2	2,4-Dinitrotoluene
U106	606-20-2	2,6-Dinitrotoluene
U107	117-84-0	Di-n-octylphthalate
U108	123-91-1	1,4-Dioxane
U109	122-66-7	1,2-Diphenylhydrazine
U110	142-84-7	Dipropylamine (I)
U111	621-64-7	Di-n-propylnitrosamine
U041	106-89-8	Epichlorohydrin
U001	75-07-0	Ethanal (I)
U174	55-18-5	Ethanamine,N-ethyl-N-nitroso-
U155	91-80-5	1,2-Ethanediamine,N,N-dimethyl-N'-2-pyridinyl-N'-(2thienylmethyl)-
U067	106-93-4	Ethane,1,2-dibromo-
U076	75-34-3	Ethane,1,1-dichloro-
U077	107-06-2	Ethane,1,2-dichloro-
U131	67-72-1	Ethane,hexachloro
U024	111-91-1	Ethane,1,1'-[methylenebis-(oxy)]bis[2-chloro-
U117	60-29-7	Ethane,1,1'-oxybis-(I)
U025	111-44-4	Ethane,1,1'-oxybis[2-chloro-
U184	76-01-7	Ethane,pentachloro-
U208	630-20-6	Ethane,1,1,1,2-tetrachloro-
U209	79-34-5	Ethane,1,1,2,2-tetrachloro-
U218	62-55-5	Ethanethioamide
U226	71-55-6	Ethane,1,1,1-trichloro-
U227	79-00-5	Ethane,1,1,2-trichloro-
U359	110-80-5	Ethanol,2-ethoxy-
U173	1116-54-7	Ethanol,2,2'-(nitrosoimino)bis-
U004	98-86-2	Ethanone,1-phenyl-
U043	75-01-4	Ethene,chloro-
U042	110-75-8	Ethene,(2-chloroethoxy)-
U078	75-35-4	Ethene,1,1-dichloro-
U079	156-60-5	Ethene,1,2-dichloro-, (E)-
U210	127-18-4	Ethene,tetrachloro-
U228	79-01-6	Ethene,trichloro-
U112	141-78-6	Ethylacetate (I)
U113	140-88-5	Ethylacrylate (I)
U238	51-79-6	Ethylcarbamate (urethane)
U117	60-29-7	Ethylether (I)
U114	(1)111-54-6	Ethylenebisdithiocarbamic acid,salts & esters
U067	106-93-4	Ethylene dibromide
U077	107-06-2	Ethylene dichloride
U359	110-80-5	Ethylene glycol monoethyl ether
U115	75-21-8	Ethylene oxide (I,T)
U116	96-45-7	Ethylene thiourea
U076	75-34-3	Ethylidene dichloride
U118	97-63-2	Ethylmethacrylate

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U119	62-50-0	Ethylmethane sulfonate
U120	206-44-0	Fluoranthene
U122	50-00-0	Formaldehyde
U123	64-18-6	Formic acid (C,T)
U124	110-00-9	Furan (I)
U125	98-01-1	2-Furancarboxaldehyde (I)
U147	108-31-6	2,5-Furandione
U213	109-99-9	Furan,tetrahydro- (I)
U125	98-01-1	Furfural (I)
U124	110-00-9	Furfuran (I)
U206	18883-66-4	Glucopyranose,2-deoxy-2-(3-methyl-3-nitrosoureido)-D
U206	18883-66-4	D-Glucose,2-deoxy-2-[[[(methylnitrosoamino)carbonyl]amino]-
U126	765-34-4	Glycidylaldehyde
U163	70-25-7	Guanidine,N-methyl-N-nitro-N-nitroso-
U127	118-74-1	Hexachlorobenzene
U128	87-68-3	Hexachlorobutadiene
U130	77-47-4	Hexachlorocyclopentadiene
U131	67-72-1	Hexachloroethane
U132	70-30-4	Hexachlorophene
U243	1888-71-7	Hexachloropropene
U133	302-01-2	Hydrazine (R,T)
U086	1615-80-1	Hydrazine,1,2-diethyl-
U098	57-14-7	Hydrazine,1,1-dimethyl-
U099	540-73-8	Hydrazine,1,2-dimethyl-
U109	122-66-7	Hydrazine,1,2-diphenyl-
U134	7664-39-3	Hydrofluoricacid (C,T)
U135	7783-06-4	Hydrogen sulfide
U096	80-15-9	Hydroperoxide,1-methyl-1-phenylethyl-(R)
U116	96-45-7	2-Imidazolidinethione
U137	193-39-5	Indeno[1,2,3-cd]pyrene
U190	85-44-9	1,3-Isobenzofurandione
U140	78-83-1	Isobutyl alcohol (I,T)
U141	120-58-1	Isosafrole
U142	143-50-0	Kepone
U143	303-34-4	Lasiocarpine
U144	301-04-2	Lead acetate
U146	1335-32-6	Lead,bis(acetato-O)tetrahydroxytri
U145	7446-27-7	Lead phosphate
U146	1335-32-6	Lead subacetate
U129	58-89-9	Lindane
U163	70-25-7	MNNG
U147	108-31-6	Maleicanhydride
U148	123-33-1	Maleichydrazide
U149	109-77-3	Malononitrile
U150	148-82-3	Melphalan
U151	7439-97-6	Mercury
U152	126-98-7	Methacrylonitrile (I,T)

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U092	124-40-3	Methanamine,N-methyl-(I)
U029	74-83-9	Methane,bromo-
U045	74-87-3	Methane,chloro-(I,T)
U046	107-30-2	Methane,chloromethoxy-
U068	74-95-3	Methane,dibromo-
U080	75-09-2	Methane,dichloro-
U075	75-71-8	Methane,dichlorodifluoro-
U138	74-88-4	Methane,iodo-
U119	62-50-0	Methane sulfonic acid, ethyl ester
U211	56-23-5	Methane,tetrachloro-
U153	74-93-1	Methanethiol (I,T)
U225	75-25-2	Methane,tribromo-
U044	67-66-3	Methane,trichloro-
U121	75-69-4	Methane,trichlorofluoro-
U036	57-74-9	4,7-Methano-1H-indene,1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a hexahydro-
U154	67-56-1	Methanol (I)
U155	91-80-5	Methapyrilene
U142	143-50-0	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one,1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-
U247	72-43-5	Methoxychlor
U154	67-56-1	Methyl alcohol (I)
U029	74-83-9	Methyl bromide
U186	504-60-9	1-Methyl butadiene (I)
U045	74-87-3	Methyl chloride (I,T)
U156	79-22-1	Methylchlorocarbonate (I,T)
U226	71-55-6	Methylchloroform
U157	56-49-5	3-Methyl cholanthrene
U158	101-14-4	4,4-Methylene bis(2-chloroaniline)
U068	74-95-3	Methylene bromide
U080	75-09-2	Methylene chloride
U159	78-93-3	Methyl ethyl ketone (MEK) (I,T)
U160	1338-23-4	Methyl ethyl ketone peroxide (R,T)
U138	74-88-4	Methyliodide
U161	108-10-1	Methyl isobutyl ketone (I)
U162	80-62-6	Methyl methacrylate (I,T)
U161	108-10-1	4-Methyl-2-pentanone (I)
U164	56-04-2	Methyl thiouracil
U010	50-07-7	MitomycinC
U059	20830-81-3	5,12-Naphthacenedione,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-,(8S-cis)-
U167	134-32-7	1-Naphthalenamine
U168	91-59-8	2-Naphthalenamine
U026	494-03-1	Naphthalenamine,N,N'-bis(2-chloroethyl)-
U165	91-20-3	Naphthalene
U047	91-58-7	Naphthalene,2-chloro-

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U166	130-15-4	1,4-Naphthalenedione
U236	72-57-1	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	130-15-4	1,4-Naphthoquinone
U167	134-32-7	alpha-Naphthylamine
U168	91-59-8	beta-Naphthylamine
U217	10102-45-1	Nitric acid, thallium(1+) salt
U169	98-95-3	Nitrobenzene (I,T)
U170	100-02-7	p-Nitrophenol
U171	79-46-9	2-Nitropropane (I,T)
U172	924-16-3	N-Nitrosodi-n-butylamine
U173	1116-54-7	N-Nitrosodiethanolamine
U174	55-18-5	N-Nitrosodiethylamine
U176	759-73-9	N-Nitroso-N-ethylurea
U177	684-93-5	N-Nitroso-N-methylurea
U178	615-53-2	N-Nitroso-N-methylurethane
U179	100-75-4	N-Nitrosopiperidine
U180	930-55-2	N-Nitrosopyrrolidine
U181	99-55-8	5-Nitro-o-toluidine
U193	1120-71-4	1,2-Oxathiolane, 2,2-dioxide
U058	50-18-0	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide
U115	75-21-8	Oxirane (I,T)
U126	765-34-4	Oxirane carboxyaldehyde
U041	106-89-8	Oxirane, (chloromethyl)-
U182	123-63-7	Paraldehyde
U183	608-93-5	Pentachlorobenzene
U184	76-01-7	Pentachloroethane
U185	82-68-8	Pentachloronitrobenzene (PCNB) See 87-86-5 Pentachlorophenol F027
U161	108-10-1	Pentanol, 4-methyl-
U186	504-60-9	1,3-Pentadiene (I)
U187	62-44-2	Phenacetin
U188	108-95-2	Phenol
U048	95-57-8	Phenol, 2-chloro-
U039	59-50-7	Phenol, 4-chloro-3-methyl-
U081	120-83-2	Phenol, 2,4-dichloro-
U082	87-65-0	Phenol, 2,6-dichloro-
U089	56-53-1	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl) bis-, (E)-
U101	105-67-9	Phenol, 2,4-dimethyl-
U052	1319-77-3	Phenol, methyl-
U132	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-
U170	100-02-7	Phenol, 4-nitro- See 87-86-5 Phenol, pentachloro-F027 See 58-90-2 Phenol, 2,3,4,6-tetrachloro-F027 See 88-06-2 Phenol, 2,4,6-trichloro-F027
U150	148-82-3	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-
U145	7446-27-7	Phosphoric acid, lead (2+) salt (2:3)
U087	3288-58-2	Phosphorodithioic acid, 0,0-diethyl S-methylester

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U189	1314-80-3	Phosphorus sulfide (R)
U190	85-44-9	Phthalic anhydride
U191	109-06-8	2-Picoline
U179	100-75-4	Piperidine,1-nitroso-
U192	23950-58-5	Pronamide
U194	107-10-8	1-Propanamine (I,T)
U111	621-64-7	1-Propanamine,N-nitroso-N-propyl-
U110	142-84-7	1-Propanamine,N-propyl-(I)
U066	96-12-8	Propane,1,2-dibromo-3-chloro-
U083	78-87-5	Propane,1,2-dichloro-
U149	109-77-3	Propane dinitrile
U171	79-46-9	Propane,2-nitro-(I,T)
U027	39638-32-9	Propane,2,2'oxybis[2-chloro-
U193	1120-71-4	1,3-Propanesultone See93-72-1Propanoicacid,2-(2,4,5-F027 trichlorophenoxy)-
U235	126-72-7	1-Propanol,2,3-dibromo-,phosphate(3:1)
U140	78-83-1	1-Propanol,2-methyl-(I,T)
U002	67-64-1	2-Propanone (I)
U007	79-06-1	2-Propenamide
U084	542-75-6	1-Propene,1,3-dichloro-
U243	1888-71-7	1-Propene,1,1,2,3,3,3-hexachloro-
U009	107-13-1	2-Propene nitrile
U152	126-98-7	2-Propene nitrile,2-methyl-(I,T)
U008	79-10-7	2-Propenoic acid (I)
U113	140-88-5	2-Propenoic acid,ethylester (I)
U118	97-63-2	2-Propenoic acid,2-methyl-,ethylester
U162	80-66-2	2-Propenoic acid,2-methyl-,methylester (I,T)
U194	107-10-8	n-Propylamine (I,T)
U083	78-87-5	Propylene dichloride
U148	123-33-1	3,6-Pyridazinedione,1,2-dihydro-
U196	110-86-1	Pyridine
U191	109-06-8	Pyridine,2-methyl-
U237	66-75-1	2,4-(1H,3H)-Pyrimidinedione,5-[bis(2-chloroethyl)amino]-
U164	56-04-2	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-
U180	930-55-2	Pyrrolidine,1-nitroso-
U200	50-55-5	Reserpine
U201	108-46-3	Resorcinol
U202	(1)81-07-2	Saccharin, and salts
U203	94-59-7	Safrole
U204	7783-00-8	Selenious acid
U204	7783-00-8	Selenium dioxide
U205	7488-56-4	Selenium sulfide
U015	115-02-6	L-Serine,diazoacetate (ester) See93-72-1Silvex(2,4,5-TP)F027
U206	18883-66-4	Streptozotocin
U103	77-78-1	Sulfuric acid, dimethyl ester
U189	1314-80-3	Sulfurphosphide (R) See93-76-52,4,5-TF027
U207	95-94-3	1,2,4,5-Tetrachlorobenzene

(continued)

EPA Listed Wastes

Table 5. Hazardous Waste "U" List (continued)		
Hazardous Waste #	CAS No.	Substance
U208	630-20-6	1,1,1,2-Tetrachloroethane
U209	79-34-5	1,1,2,2-Tetrachloroethane
U210	127-18-4	Tetrachloroethylene (see 58-90-22,3,4,6-Tetrachlorophenol F027)
U213	109-99-9	Tetrahydrofuran (I)
U214	563-68-8	Thallium (I) acetate
U215	6533-73-9	Thallium (I) carbonate
U216	7791-12-0	Thallium (I) chloride
U216	7791-12-0	Thallium chloride TlCl
U217	10102-45-1	Thallium (I) nitrate
U218	62-55-5	Thioacetamide
U153	74-93-1	Thiomethanol (I,T)
U244	137-26-8	Thioperoxydicarbonicdiamide [(H(2)N)C(S)](2)S(2)tetramethyl-
U219	62-56-6	Thiourea
U244	137-26-8	Thiram
U220	108-88-3	Toluene
U221	25376-45-8	Toluene diamine
U223	26471-62-5	Toluene diisocyanate (R,T)
U328	95-53-4	o-Toluidine
U353	106-49-0	p-Toluidine
U222	636-21-5	o-Toluidine hydrochloride
U011	61-82-5	1H-1,2,4-Triazol-3-amine
U227	79-00-5	1,1,2-Trichloroethane
U228	79-01-6	Trichloroethylene
U121	75-69-4	Trichloromonofluoromethane See 95-95-42,4,5-Trichlorophenol F027 See 88-06-22,4,6-Trichlorophenol F027
U234	99-35-4	1,3,5-Trinitrobenzene (R,T)
U182	123-63-7	1,3,5-Trioxane,2,4,6-trimethyl-
U235	126-72-7	Tris(2,3-dibromopropyl) phosphate
U236	72-57-1	Trypan blue
U237	66-75-1	Uracil mustard
U176	759-73-9	Urea,N-ethyl-N-nitroso-
U177	684-93-5	Urea,N-methyl-N-nitroso
U043	75-01-4	Vinyl chloride
U248	(1)81-81-2	Warfarin,when present at concentrations of 0.3% or less
U239	1330-20-7	Xylene (1)
U200	50-55-5	Yohimban-16-carboxylicacid,11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-,methyl ester,(3 beta,16 beta,17 alpha,18 beta,20 alpha)-
U249	1314-84-7	Zinc phosphide,Zn(3)P(2),when present at concentrations of 10% or less.

Notes:

(1) CAS Number given for parent compound only.