## DEPARTMENT OF ENVIRONMENTAL QUALITY SOLID AND HAZARDOUS WASTE DIVISION

# $\begin{array}{ccc} {\rm HAZARDOUS} & {\rm WASTE} & {\rm MANAGEMENT} \\ & {\rm CHAPTER} & 2 \\ {\rm IDENTIFICATION} & {\rm AND} & {\rm LISTING} & {\rm OF} & {\rm HAZARDOUS} & {\rm WASTE} \\ \end{array}$

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## DEPARTMENT OF ENVIRONMENTAL QUALITY SOLID AND HAZARDOUS WASTE DIVISION HAZARDOUS WASTE MANAGEMENT

### CHAPTER 2 IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

261/Subpart A Section 1. GENERAL.

261.1 (a) PURPOSE AND SCOPE.

- 261.1(a)

  (i) This Chapter identifies those waste materials which are subject to regulation as hazardous wastes under Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11, and Chapter 13 of these rules and regulations and which are subject to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations. In this Chapter:
- 261.1(a)(1)

  (A) Section 1 of this Chapter defines the terms "hazardous waste", identifies those wastes which are excluded from regulation under Chapter 1, Sections 1(h)-1(j); Chapter 3, Section 2; Chapter 4; Chapter 5; Chapter 6, Section 2; Chapter 7; Chapters 8 through 11; Chapter 12, Sections 1 through 8; and Chapter 13 of these rules and regulations and establishes special management requirements for hazardous waste produced by conditionally exempt small quantity generators and hazardous waste which is recycled.
- 261.1(a)(2) (B) Section 2 sets forth the criteria used by EPA to identify characteristics of hazardous waste and to list particular hazardous wastes.
- 261.1(a)(3) (C) Section 3 identifies characteristics of hazardous waste.
- 261.1(a)(4) (D) Section 4 lists particular hazardous wastes.
- 261.1(b)(1) (ii) The definition of waste material contained in Chapter 1, Section 1(f)(i) of these rules and regulations applies only to wastes that also are hazardous for the purposes of implementing W.S. 35-11-503(d). For example, it does not apply to materials (such as non-hazardous scrap, paper, textiles, or rubber) that are not otherwise hazardous wastes and that are recycled.
- 261.1(b)(2)

  (A) This Chapter identifies only some of the materials which are waste materials and hazardous wastes for purposes of W.S. 35-11-109(a); W.S. 35-11-110(a); W.S. 35-11-115; W.S. 35-11-503(d); Articles 7 and 9 of the Wyoming Environmental Quality Act; Chapter 1, Section 1(k)(i); Chapter 1, Section 1(l) of these rules and regulations; and RCRA Section 7003. A material which is not defined as a waste material in Chapter 1, Section 1(f)(i) of these rules and regulations, or is not a hazardous waste identified or listed in this Chapter, is still a waste material and a hazardous waste for purposes of these rules and regulations if:
- ...(i)

  (I) In the case of W.S. 35-11-109(a); W.S. 35-11-110(a); W.S. 35-11-503(d); and Chapter 1, Section 1(1) of these rules and regulations, the Department has reason to believe that the material may be a waste material within the meaning of W.S. 35-11-503(d) and Chapter 1, Section 1(f)(i) of these rules and regulations and a hazardous waste within the meaning of W.S. 35-11-103(d)(vii); or
  - (II) In the case of W.S. 35-11-115; W.S. 35-

11-503(d); Articles 7 and 9 of the Wyoming Environmental Quality Act; Chapter 1, Section 1(k)(i) of these rules and regulations; and RCRA Section 7003, the statutory elements are established.

- 261.1(c) (iii) Definitions: The following terms, defined in Chapter 1, Section 1(f)(i) of these rules and regulations, apply for the purposes of the definition of "waste material" in Chapter 1, Section 1(f)(i) and to Section 1(f) of this Chapter, as well as Chapter 12, Sections 9 through 17 of these rules and regulations: "spent material," "sludge," "by-product," "reclaimed," "used or reused," "scrap metal," "recycled," "accumulated speculatively," "excluded scrap metal," "processed scrap metal," "home scrap metal," and "prompt scrap metal".
- 261.2 (b) DEFINITION OF WASTE MATERIAL.
  - (i) See Chapter 1, Section 1(f)(i) of these rules and regulations for the definition of "waste material." [Note: This definition for waste material is equivalent to the federal definition for solid waste.]
- 261.3 (c) DEFINITION OF HAZARDOUS WASTE.
- 261.3(a) (i) A waste material, as defined in Chapter 1, Section 1(f)(i) of these rules and regulations, is a hazardous waste if:
- (A) It is not excluded from regulation as a hazardous waste under Section 1(d)(ii) of this Chapter; and
- 261.3(a)(2) (B) It meets any of the following criteria:
- (I) It exhibits any of the characteristics of ...(i) hazardous waste identified in Section 3 of this Chapter. However, any mixture of a waste from the extraction, beneficiation, and processing of ores and minerals excluded under Section 1(d)(ii)(G) of this Chapter (the excluded waste) and any other waste material exhibiting a characteristic of hazardous waste under Section 3 of this Chapter is regulated as a hazardous waste only if it exhibits a characteristic that would not have been exhibited by the excluded waste alone if such mixture had not occurred or if it continues to exhibit any of the characteristics exhibited by the non-excluded wastes prior to mixture. Further, for the purposes of applying the Toxicity Characteristic to such mixtures, the mixture is also a hazardous waste if it exceeds the maximum concentration for any contaminant listed in Table 1 to Section 3(e) of this Chapter-that would not have been exceeded by the excluded waste alone if the mixture had not occurred or if it continues to exceed the maximum concentration for any contaminant exceeded by the nonexempt waste prior to mixture.
- ...(ii)

  (II) It is listed in Section 4 of this
  Chapter and has not been excluded from the lists in Section 4 by the
  Director under Chapter 1, Sections 3(a) and 3(c) of these rules and
  regulations as designated in Appendix I.
- ...(iii) (III) Reserved
- ...(iv)

  (IV) It is a mixture of waste material and one or more hazardous wastes listed in Section 4 of this Chapter and has not been excluded from Section 1(c)(i)(B) of this Chapter under Chapter 1, Sections 3(a) and 3(c) of these rules and regulations, or Section 1(c)(vii) or Section 1(c)(viii) of this Chapter; however, the following mixtures of waste materials and hazardous wastes listed in Section 4 of this Chapter are not hazardous wastes (except by application of Section 1(c)(i)(B)(I) or (II) of this Chapter) if the

generator can demonstrate that the mixture consists of wastewater the discharge of which is subject to regulation under either Section 402 or Section 307(b) of the Clean Water Act (including wastewater at facilities which have eliminated the discharge of wastewater) and

- ...(iv)(A)

  (1.) One or more of the following solvents listed in Section 4(b) of this Chapter carbon tetrachloride, tetrachloroethylene, trichloroethylene -- provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pretreatment system does not exceed 1 part per million; or
- ...(iv)(B)

  (2.) One or more of the following spent solvents listed in Section 4(b) of this Chapter methylene chloride, 1,1,1-trichloroethane, chlorobenzene, o-dichlorobenzene, cresols, cresylic acid, nitrobenzene, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, spent chlorofluorocarbon solvents-provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pretreatment system does not exceed 25 parts per million; or
- ...(iv)(C)

  (3.) One of the following wastes
  listed in Section 4(c) of this Chapter provided that the wastes are
  discharged to the refinery oil recovery sewer before primary
  oil/water/solids separation -- heat exchanger bundle cleaning sludge
  from the petroleum refining industry (EPA Hazardous Waste No. K050),
  crude oil storage tank sediment from petroleum refining operations
  (EPA Hazardous Waste No. K169), clarified slurry oil tank sediment
  and/or in-line filter/separation solids from petroleum refining
  operations (EPA Hazardous Waste No. K170), spent hydrotreating
  catalyst (EPA Hazardous Waste No. K171), and spent hydrorefining
  catalyst (EPA Hazardous Waste No. K172); or
- ...(iv)(D)

  (4.) A discarded commercial chemical product, or chemical intermediate listed in Section 4(d) of this Chapter, arising from de minimis losses of these materials from manufacturing operations in which these materials are used as raw materials or are produced in the manufacturing process. For purposes of Section 1(c)(i)(B)(IV)(4.) of this Chapter, "de minimis" losses include those from normal material handling operations (e.g., spills from the unloading or transfer of materials from bins or other containers, leaks from pipes, valves or other devices used to transfer materials); minor leaks of process equipment, storage tanks or containers; leaks from well maintained pump packings and seals; sample purgings; relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment; and rinsate from empty containers or from containers that are rendered empty by that rinsing; or
- ...(iv)(E)

  (5.) Wastewater resulting from
  laboratory operations containing toxic (T) wastes listed in Section 4
  of this Chapter, provided that the annualized average flow of
  laboratory wastewater does not exceed one percent of total wastewater
  flow into the headworks of the facility's wastewater treatment or
  pre-treatment system or provided the wastes, combined annualized
  average concentration does not exceed one part per million in the
  headworks of the facility's wastewater treatment or pre-treatment
  facility. Toxic (T) wastes used in laboratories that are demonstrated
  not to be discharged to wastewater are not to be included in this
  calculation; or

- ...iv)(F)

  (6.) One or more of the following wastes listed in Section 4(c) of this Chapter wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157) Provided that the maximum weekly usage of formaldehyde, methyl chloride, methylene chloride, and triethylamine (including all amounts that can not be demonstrated to be reacted in the process, destroyed through treatment, or is recovered, i.e., what is discharged or volatilized) divided by the average weekly flow of process wastewater prior to any dilutions into the headworks of the facility=s wastewater treatment system does not exceed a total of 5 parts per million (ppm) by weight; or
- ...(iv)(G) (7.) Wastewaters derived from the treatment of one or more of the following wastes listed in Section 4(c) of this Chapter organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156). Provided, that the maximum concentration of formaldehyde, methyl chloride, methylene chloride, and triethylamine prior to any dilutions into the headworks of the facility's wastewater treatment system does not exceed a total of 5 milligrams per liter.
- ...(v) (V) Rebuttable presumption for used oil.

  Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in Section 4 of this Chapter. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846, Third Edition, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix H of this Chapter). EPA Publication SW-846, Third Edition, is available for the cost of \$110.00 from the Government Printing Office, Superintendent of Documents, PO Box 371954, Pittsburgh, PA 15250-7954. 202-783-3238 (Document Number 955-001-00000-1).
- ...(v)(A) (1.) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling agreement, to reclaim metalworking oils/fluids. The presumption does apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner, or disposed.
- ...(v)(B)  $(2.) \ \ \, \text{The rebuttable presumption does} \\ \text{not apply to used oils contaminated with chlorofluorocarbons (CFCS)} \\ \text{removed from refrigeration units where the CFCS are destined for} \\ \text{reclamation. The rebuttable presumption does apply to used oils} \\ \text{contaminated with CFCS that have been mixed with used oil from} \\ \text{sources other than refrigeration units.}$
- 261.3(b) (ii) A waste material which is not excluded from regulation under Section 1(c)(i)(A) of this Chapter becomes a hazardous waste when any of the following events occur:
- 261.3(b)(1) (A) In the case of a waste listed in Section 4 of this Chapter, when the waste first meets the listing description set forth in Section 4 of this Chapter.
- 261.3(b)(2) (B) In the case of a mixture of waste material and one or more listed hazardous wastes, when a hazardous waste listed in Section 4 of this Chapter is first added to the waste material.

- 261.3(b)(3) (C) In the case of any other waste (including a waste mixture), when the waste exhibits any of the characteristics identified in Section 3 of this Chapter.
- 261.3(c) (iii) Unless and until it meets the criteria of Section 1(c)(iv) of this Chapter:
- 261.3(c)(1) (A) A hazardous waste will remain a hazardous waste.
- 261.3(c)(2)(i)

  (B) Except as otherwise provided in Sections 1(c)(iii)(C), 1(c)(vii) or 1(c)(viii) of this Chapter, any waste material generated from the treatment, storage, or disposal of a hazardous waste, including any sludge, spill residue, ash, emission control dust, or leachate (but not including precipitation run-off) is a hazardous. (However, materials that are reclaimed from waste materials and that are used beneficially are not waste materials and hence are not hazardous wastes under this provision unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal.)
- ...(ii) (C) The following waste materials are not hazardous even though they are generated from the treatment, storage, or disposal of a hazardous waste, unless they exhibit one or more of the characteristics of hazardous waste:
- ...(ii)(A) (I) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC Codes 331 and 332).
- ...(ii)(B) (II) Waste from burning any of the materials exempted from regulation by Sections 1(f)(i)(C)(IV) and (VI) of this Chapter.
- (III) Nonwastewater residues, such as slag, ...(ii)(C)(1)resulting from high temperature metals recovery (HTMR) processing of K061, K062 or F006 waste, in units identified as rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or industrial furnaces (as defined in paragraphs (F), (G), and (M) of the definition for "industrial waste" in Chapter 1, Section 1(f)(i) of these rules and regulations), that are disposed in units regulated under the Wyoming Solid Waste Rules and Regulations, provided that these residues meet the generic exclusion levels identified in the tables in Section 1(c)(iii) of this Chapter for all constituents, and exhibit no characteristics of hazardous waste. Testing requirements must be incorporated in a facility's waste analysis plan or a generator's self-implementing waste analysis plan; at a minimum, composite samples of residues must be collected and analyzed quarterly and/or when the process or operation generating the waste changes. Persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements.

CONSTITUENT	MAXIMUM FOR ANY SINGLE COMPOSITE SAMPLE-TCLP (mg/L)					
GENERIC EXCLUSION LEVELS FOR K061 AND K062 NONWASTEWATER HTMR RESIDUES						
ANTIMONY	0.10					
ARSENIC	0.50					
BARIUM	7.6					

CONSTITUENT	MAXIMUM FOR ANY SINGLE COMPOSITE SAMPLE-TCLP (mg/L)						
GENERIC EXCLUSION LEVELS FOR K061 AND K062 NONWASTEWATER HTMR RESIDUES							
BERYLLIUM	0.010						
CADMIUM	0.050						
CHROMIUM (TOTAL)	0.33						
LEAD	0.15						
MERCURY	0.009						
NICKEL	1.0						
SELENIUM	0.16						
SILVER	0.30						
THALLIUM	0.020						
ZINC	70						
GENERIC EXCLUSION LEVELS FOR F006 NONWASTEWATER HTMR RESIDUES							
ANTIMONY	0.10						
ARSENIC	0.50						
BARIUM	7.6						
BERYLLIUM	0.010						
CADMIUM	0.050						
CHROMIUM (TOTAL)	0.33						
CYANIDE (TOTAL) (mg/kg)	1.8						
LEAD	0.15						
MERCURY	0.009						
NICKEL	1.0						
SELENIUM	0.16						
SILVER	0.30						
THALLIUM	0.020						
ZINC	70						

...(ii)(C)(2)

(1.) A one-time notification and certification must be placed in the facility's files and sent to the Department for K061,  $\bar{\text{K062}}$  OR F006 HTMR residues that meet the generic exclusion levels for all constituents and do not exhibit any characteristics that are sent to units regulated under the Wyoming Solid Waste Rules and Regulations. The notification and certification that is placed in the generators or treaters files must be updated if the process or operation generating the waste changes and/or if the unit regulated under the Wyoming Solid Waste Rules and Regulations that is receiving the waste changes. However, the generator or treater need only notify the Department on an annual basis if such changes occur. Such notification and certification should be sent to the Department by the end of the calendar year, but no later than December 31. The notification must include the following information: the name and address of the unit regulated under the Wyoming Solid Waste Rules and Regulations that is receiving the waste shipments; the EPA hazardous waste number(s) and treatability group(s) at the initial point of generation; and, the treatment standards applicable to the waste at the initial point of generation. The certification must be signed by an authorized representative and must state as follows: "I certify under penalty of law that the generic exclusion

levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

- ...(ii)(D) (IV) Biological treatment sludge from the treatment of one of the following wastes listed in Section 4(c) of this Chapter organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156), and wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157).
- ...(ii)(E) (V) Catalyst inert support media separated from one of the following wastes listed in Section 4(c) of this Chapter--Spent hydrotreating catalyst (EPA Hazardous Waste No. K171), and Spent hydrorefining catalyst (EPA Hazardous Waste No. K172).
- 261.3(d) (iv) Any waste material described in Section 1(c)(iii) of this Chapter is not a hazardous waste if it meets the following criteria:
- 261.3(d)(1)

  (A) In the case of any waste material, it does not exhibit any of the characteristics of hazardous waste identified in Section 3 of this Chapter. (However, wastes that exhibit a characteristic at the point of generation may still be subject to the requirements of Chapter 13 of these rules and regulations, even if they no longer exhibit a characteristic at the point of land disposal.)
- 261.3(d)(2)

  (B) In the case of a waste which is a listed waste under Section 4 of this Chapter, contains a waste listed under Section 4 or is derived from a waste listed in Section 4, it also has been excluded from Section 1(c)(iii) of this Chapter by the Director under Chapter 1, Sections 3(a) and 3(c) of these rules and regulations and designated in Appendix I.
- 261.3(e) (v) [Reserved]
- 261.3(f) (vi) Notwithstanding Sections 1(c)(i) through (iv) of this Chapter and provided the debris as defined in Chapter 13 of these rules and regulations does not exhibit a characteristic identified at Section 3 of this Chapter, the following materials are not subject to regulation under this Chapter or Chapter 1, Sections 1 and 3; Chapter 2; Chapter 3, Section 2; Chapter 4; Chapter 5; Chapter 6, Section 2; Chapter 7; Chapter 8; Chapter 9; Chapter 10; Chapter 11; Chapter 12, Sections 1 through 8, 19 and 20; or Chapter 13 of these rules and regulations:
- 261.3(f)(1)

  (A) Hazardous debris as defined in Chapter 13 of these rules and regulations that has been treated using one of the required extraction or destruction technologies specified in Table 1 of Chapter 13, Section 4(f) of these rules and regulations; persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements; or
- 261.3(f)(2) (B) Debris as defined in Chapter 1, Section 1(f)(i) of these rules and regulations that the Director, considering the extent of contamination, has determined is no longer contaminated with hazardous waste.
- 261.3(g)(1) (vii) A hazardous waste that is listed in Section 4 of this Chapter solely because it exhibits one or more characteristics

- of ignitability as defined under Section 3(b) of this Chapter, corrosivity as defined under Section 3(c) of this Chapter, or reactivity as defined under Section 3(d) of this Chapter is not a hazardous waste, if the waste no longer exhibits any characteristic of hazardous waste identified in Section 3 of this Chapter.
- 261.3(g)(2) (A) The exclusion described in Section 1(c)(vii) of this Chapter also pertains to:
- 261.3(g)(2)(i)

  (I) Any mixture of a waste material and a hazardous waste listed in Section 4 of this Chapter solely because it exhibits the characteristics of ignitability, corrosivity, or reactivity as regulated under Section 1(c)(i)(B)(IV) of this Chapter; and
- 261.3(g)(2)(ii)

  (II) Any waste material generated from treating, storing, or disposing of a hazardous waste listed in Section 4 of this Chapter solely because it exhibits the characteristics of ignitability, corrosivity, or reactivity as regulated under Section 1(c)(iii)(B) of this Chapter.
- 261.3(g)(3) (B) Wastes excluded under this Section are subject to Chapter 13 of these rules and regulations (as applicable), even if they no longer exhibit a characteristic at the point of land disposal.
- 261.3(g)(4)

  (C) Any mixture of a waste material excluded from regulation under Section 1(d)(ii)(G) of this Chapter and a hazardous waste listed in Section 4 of this Chapter solely because it exhibits one or more of the characteristics of ignitability, corrosivity, or reactivity as regulated under Section 1(c)(i)(B)(IV) of this Chapter is not a hazardous waste, if the mixture no longer exhibits any characteristic of hazardous waste identified in Section 3 of this Chapter for which the hazardous waste listed in Section 4 of this Chapter was listed.
- 261.3(h)(1) (viii) Hazardous waste containing radioactive waste is no longer a hazardous waste when it meets the eligibility criteria and conditions of Chapter 12, Section 20 of these rules and regulations ^.
- 261.3(h)(2) (A) The exemption described in Section 1(c)(viii) of this Chapter also pertains to:
- 261.3(h)(2)(i) (I) Any mixture of a waste material and an eligible radioactive mixed waste; and
- 261.3(h)(2)(ii) (II) Any waste material generated from treating, storing, or disposing of an eligible radioactive mixed waste.
- 261.3(h)(3) (B) Waste exempted under Section 1 of this Chapter must meet the eligibility criteria and specified conditions in Chapter 12, Sections 20(c), 20(d), 20(1) and 20(m) of these rules and regulations. Waste that fails to satisfy these eligibility criteria and conditions is regulated as hazardous waste.
- 261.4 (d) EXCLUSIONS.
- 261.4(a) (i) Materials which are not waste materials. The following materials are not waste materials for the purpose of this Chapter:

### (A) Domestic sewage; and

- ...(ii) (I) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly-owned treatment works for treatment. "Domestic sewage" means untreated sanitary wastes that pass through a sewer system.
- $_{(B)}$  Industrial wastewater discharges that are point source discharges subject to regulation under Section 402 of the Clean Water Act, as amended.

[Comment: This exclusion applies only to the actual point source discharge. It does not exclude industrial wastewaters while they are being collected, stored or treated before discharge, nor does it exclude sludges that are generated by industrial wastewater treatment.]

261.4(a)(3) (C) Irrigation return flows.

261.4(a)(1)(I)

- 261.4(a)(4) (D) Source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq.
- 261.4(a)(5) (E) Materials subjected to in-situ mining techniques which are not removed from the ground as part of the extraction process.
- 261.4(a)(6) (F) Pulping liquors (i.e., black liquor) that are reclaimed in a pulping liquor recovery furnace and then reused in the pulping process, unless it is accumulated speculatively as defined in Chapter 1, Section 1(f)(i) of these rules and regulations.
- 261.4(a)(7) (G) Spent sulfuric acid used to produce virgin sulfuric acid, unless it is accumulated speculatively as defined in Chapter 1, Section 1(f)(i) of these rules and regulations.
- 261.4(a)(8) (H) Secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:
- ...(i) (I) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;
- ...(ii) (II) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators);
- ...(iii) (III) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed; and
- $\dots$  (IV) The reclaimed material is not used to produce a fuel, or used to product that are used in a manner constituting disposal.
- 261.4(a)(9)(i) (I) Spent wood preserving solutions that have been reclaimed and are reused for their original intended purpose; and
- ...(ii) Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.
- ...(iii) Prior to reuse, the wood preserving

wastewaters and spent wood preserving solutions described in Sections l(d)(i)(I) and l(d)(i)(I)(I) of this Chapter, so long as they meet all of the following conditions:

- ...(iii)(A)

  (1.) The wood preserving wastewaters and spent wood preserving solutions are reused on-site at water borne plants in the production process for their original intended purpose;
- $\dots$  (iii)(B) (2.) Prior to reuse, the wastewaters and spent wood preserving solutions are managed to prevent release to either land or groundwater or both;
- ...(iii)(C)  $\qquad \qquad (3.) \quad \text{Any unit used to manage} \\ \text{wastewaters and/or spent wood preserving solutions prior to reuse can} \\ \text{be visually or otherwise determined to prevent such releases;}$
- ...(iii)(D) (4.) Any drip pad used to manage the wastewaters and/or spent wood preserving solutions prior to reuse complies with the standards in Chapter 11, Section 24 of these rules and regulations, regardless of whether the plant generates a total of less than 100 kg/month of hazardous waste; and
- ...(iii)(E) (5.) Prior to operating pursuant to this exclusion, the plant owner or operator submits to the ^ Director a one-time notification stating that the plant intends to claim the exclusion, giving the date on which the plant intends to begin operating under the exclusion, and containing the following language:
  - "I have read the applicable regulation establishing an exclusion for wood preserving wastewaters and spent wood preserving solutions and understand it requires me to comply at all times with the conditions set out in the regulation." The plant must maintain a copy of that document in its on-site records for a period of no less than 3 years from the date specified in the notice. The exclusion applies only so long as the plant meets all of the conditions. If the plant goes out of compliance with any condition, it may apply to the ^ Director for reinstatement. The ^ Director may reinstate the exclusion upon finding that the plant has returned to compliance with all conditions and that violations are not likely to recur."
- 261.4(a)(10)

  (J) EPA hazardous waste nos. K060, K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke by-products processes that are hazardous only because they exhibit the Toxicity Characteristic (TC) specified in Section 3(e) of this Chapter when, subsequent to generation, these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or mixed with coal tar prior to the tar's sale or refining. This exclusion is conditioned on there being no land disposal of the wastes from the point they are generated to the point they are recycled to coke ovens or tar recovery or refining processes, or mixed with coal tar.
- 261.4(a)(11) (K) Nonwastewater splash condenser dross residue from the treatment of K061 in high temperature metals recovery units, provided it is shipped in drums (if shipped) and not land disposed before recovery.
- 261.4(a)(12) (L) Oil-bearing hazardous secondary materials and recovered oil.
- 261.4(a)(12)(i)

  (I) Oil-bearing hazardous secondary materials (i.e., sludges, byproducts, or spent materials) that are generated at a petroleum refinery (SIC code 2911) and are inserted into the petroleum refining process (SIC code 2911--including, but not limited to, distillation, catalytic cracking, fractionation, or thermal

cracking units (i.e., cokers)) unless the material is placed on the land, or speculatively accumulated before being so recycled. Materials inserted into thermal cracking units are excluded under Section 1(d)(L)(I) of this Chapter, provided that the coke product also does not exhibit a characteristic of hazardous waste. Oil-bearing hazardous secondary materials may be inserted into the same petroleum refinery where they are generated, or sent directly to another petroleum refinery, and still be excluded under this provision. Except as provided in Section 1(d)(L)(II) of this Chapter, oil-bearing hazardous secondary materials generated elsewhere in the petroleum industry (i.e., from sources other than petroleum refineries) are not excluded under Section 1(d) of this Chapter. Residuals generated from processing or recycling materials excluded under Section 1(d)(L)(I) of this Chapter, where such materials as generated would have otherwise met a listing under Section 4 of this Chapter, are designated as F037 listed wastes when disposed of or intended for disposal.

- ...(ii)

  (II) Recovered oil that is recycled in the same manner and with the same conditions as described in Section 1(d)(i)(L)(I) of this Chapter. Recovered oil is oil that has been reclaimed from secondary materials (including wastewater) generated from normal petroleum industry practices, including refining, exploration and production, bulk storage, and transportation incident thereto (SIC codes 1311, 1321, 1381, 1382, 1389, 2911, 4612, 4613, 4922, 4923, 4789, 5171, and 5172.) Recovered oil does not include oil-bearing hazardous wastes listed in Section 4 of this Chapter; however, oil recovered from such wastes may be considered recovered oil. Recovered oil does not include used oil as defined in Chapter 1, Section 1(f)(i) of these rules and regulations.
- 261.4(a)(13) (M) Excluded scrap metal (processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal) being recycled.
- 261.4(a)(14) (N) Shredded circuit boards being recycled provided that they are:
- ..(i) Stored in containers sufficient to prevent a release to the environment prior to recovery; and
- ...(ii)  $\qquad \qquad \text{(II)} \quad \text{Free of mercury switches, mercury } \\ \text{relays and nickel-cadmium batteries and lithium batteries.}$
- 261.4(a)(16) (0) Comparable fuels or comparable syngas fuels (i.e., comparable/syngas fuels) that meet the requirements of Section 4(h) of this Chapter.
- 261.4(a)(18)

  (P) Petrochemical recovered oil from an associated organic chemical manufacturing facility, where the oil is to be inserted into the petroleum refining process (SIC code 2911) along with normal petroleum refinery process streams, provided:
- ...(i)

  (I) The oil is hazardous only because it exhibits the characteristic of ignitability (as defined in Section 3 (b) of this Chapter) and/or toxicity for benzene in Section 3(e) of this Chapter, waste code D018); and
- ...(ii)

  (II) The oil generated by the organic chemical manufacturing facility is not placed on the land, or speculatively accumulated before being recycled into the petroleum refining process. An "associated organic chemical manufacturing facility" is a facility where the primary SIC code is 2869, but where operations may also include SIC codes 2821, 2822, and 2865; and is physically co-located with a petroleum refinery; and where the

petroleum refinery to which the oil being recycled is returned also provides hydrocarbon feedstocks to the organic chemical manufacturing facility. "Petrochemical recovered oil" is oil that has been reclaimed from secondary materials (i.e., sludges, byproducts, or spent materials, including wastewater) from normal organic chemical manufacturing operations, as well as oil recovered from organic chemical manufacturing processes.

- 261.4(a)(19) (Q) Spent caustic solutions from petroleum refining liquid treating processes used as a feedstock to produce cresylic or naphthenic acid unless the material is placed on the land, or accumulated speculatively as defined in Chapter 1, Section 1(f)(i) of these rules and regulations.
- 261.4(a)(17)

  (R) Spent materials as defined in Chapter 1
  Section 1(f)(i) (other than hazardous wastes listed in Section 4 of
  this Chapter) generated within the primary mineral processing
  industry from which minerals, acids, cyanide, water, or other values
  are recovered by mineral processing or by beneficiation, provided
  that:
- ...(i) (I) The spent material is legitimately recycled to recover minerals, acids, cyanide, water or other values;
- $\dots$  (II) The spent material is not accumulated speculatively;
- (III) Except as provided in Section 1 ...(iii) (d)(i)(R)(IV) of this Chapter, the spent material is stored in tanks, containers, or buildings meeting the following minimum integrity standards: a building must be an engineered structure with a floor, walls, and a roof all of which are made of non-earthen materials providing structural support (except smelter buildings may have partially earthen floors provided the spent material is stored on the non-earthen portion), and have a roof suitable for diverting rainwater away from the foundation; a tank must be free standing, not be a surface impoundment (as defined in Chapter 1 Section 1(f)(i)), and be manufactured of a material suitable for containment of its contents; a container must be free standing and be manufactured of a material suitable for containment of its contents. If tanks or containers contain any particulate which may be subject to wind dispersal, the owner/operator must operate these units in a manner which controls fugitive dust. Tanks, containers, and buildings must be designed, constructed and operated to prevent significant releases to the environment of these materials.
- ...(iv) (IV) The Director may make a site-specific determination, after public review and comment, that only solid mineral processing spent material may be placed on pads, rather than in tanks, containers, or buildings. Solid mineral processing spent materials do not contain any free liquid. The Director must affirm that pads are designed, constructed and operated to prevent significant releases of the spent material into the environment. Pads must provide the same degree of containment afforded by the non-RCRA tanks, containers and buildings eligible for exclusion.
- ...(iv)(A)

  (1.) The Director must also consider if storage on pads poses the potential for significant releases via groundwater, surface water, and air exposure pathways. Factors to be considered for assessing the groundwater, surface water, air exposure pathways are: The volume and physical and chemical properties of the spent material, including its potential for migration off the pad;

the potential for human or environmental exposure to hazardous constituents migrating from the pad via each exposure pathway, and the possibility and extent of harm to human and environmental receptors via each exposure pathway.

- ...(iv)(B) (2.) Pads must meet the following minimum standards: Be designed of non-earthen material that is compatible with the chemical nature of the mineral processing spent material, capable of withstanding physical stresses associated with placement and removal, have run on/runoff controls, be operated in a manner which controls fugitive dust, and have integrity assurance through inspections and maintenance programs.
- $\dots$  (iv)(C) (3.) Before making a determination under Section 1(d)(i)(R)(IV) of this Chapter, the Director must provide notice and the opportunity for comment to all persons potentially interested in the determination. This can be accomplished by placing notice of this action in major local newspapers, or broadcasting notice over local radio stations.
- ...(v) (V) The owner or operator provides notice to the Director providing the following information: The types of materials to be recycled; the type and location of the storage units and recycling processes; and the annual quantities expected to be placed in land-based units. This notification must be updated when there is a change in the type of materials recycled or the location of the recycling process.
- ...(vi)

  (VI) For purposes of Section 1(d)(ii)(G)of this Chapter, mineral processing spent materials must be the result of mineral processing and may not include any listed hazardous wastes. Listed hazardous wastes and characteristic hazardous wastes generated by non-mineral processing industries are not eligible for the conditional exclusion from the definition of waste material.
- 261.4(b) (ii) Waste materials which are not hazardous wastes. The following waste materials are not hazardous wastes:
- 261.4(b)(1)

  (A) Household waste, including household waste that has been collected, transported, stored, treated, disposed, recovered (e.g., refuse-derived fuel) or reused. "Household waste" means any material (including garbage, trash and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds and day-use recreation areas). A resource recovery facility managing municipal waste material shall not be deemed to be treating, storing, disposing of, or otherwise managing hazardous wastes for the purposes of regulation under W.S. 35-11-503(d), if such facility:
- ...(i) Receives and burns only
- ...(i)(A)  $\qquad \qquad (1.) \ \ \mbox{Household waste (from single and multiple dwellings, hotels, motels, and other residential sources)} \\ \ \ \mbox{and}$
- $\dots$  (i)(B) (2.) Waste material from commercial or industrial sources that does not contain hazardous waste; and
- ...(ii) (II) Such facility does not accept hazardous wastes and the owner or operator of such facility has established contractual requirements or other appropriate notification or

inspection procedures to assure that hazardous wastes are not received at or burned in such facility.

- 261.4(b)(2) (B) Waste materials generated by any of the following and which are returned to the soils as fertilizers:
- $...(i) \\ \hspace{0.2in} \text{ (I)} \hspace{0.5in} \text{The growing and harvesting of agricultural crops.}$
- $...(ii) \\ \hspace{2.5cm} \text{(II)} \hspace{2.5cm} \text{The raising of animals, including} \\ \hspace{2.5cm} \text{animal manures.}$
- 261.4(b)(3) (C) Mining overburden returned to the mine site.
- 261.4(b)(4) (D) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste, generated primarily from the combustion of coal or other fossil fuels, except as provided by Chapter 12, Section 8(m) of these rules and regulations for facilities that burn or process hazardous waste.
- 261.4(b)(5) (E) Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas or geothermal energy.
  - (F) The following chromium wastes:
- 261.4(b)(6)(i)

  (I) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in Section 4 of this Chapter due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:
- ...(i)(A) (1.) The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and
- ...(i)(B)

  (2.) The waste is generated from an industrial process which uses trivalent chromium exclusively (or nearly exclusively) and the process does not generate hexavalent chromium; and
- $\dots$  (i)(C) (3.) The waste is typically and frequently managed in non-oxidizing environments.
- ...(ii)

  (II) Specific waste which meet the standard in Sections 1(d)(ii)(F)(I)(1.), (2.), and (3.) of this Chapter (so long as they do not fail the test for the toxicity characteristic, for any other constituent, and do not exhibit any other characteristic) are:
- ...(ii)(A)

  (1.) Chrome (blue) trimmings generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
- ...(ii)(B)

  (2.) Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

...(ii)(C)

(3.) Buffing dust generated by the

following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue.

- ...(ii)(D)

  (4.) Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/crome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
- ...(ii)(E) (5.) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
- ...(ii)(F) (6.) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrometan/retan/wet finish; and through-the-blue.
- $\dots$  (ii)(G) (7.) Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries.
- ...(Ii)(H) (8.) Wastewater treatment sludges from the production of  ${\rm TiO_2}$  pigment using chromium-bearing ores by the chloride process.
- 261.4(b)(7)

  (G) Waste material from the extraction, beneficiation, and processing of ores and minerals (including coal, phosphate rock and overburden from the mining of uranium ore), except as provided by Chapter 12, Section 8(m) of these rules and regulations for facilities that burn or process hazardous waste.
- ...(i)

  (I) For purposes of Section 1(d)(ii)(G) of this Chapter, beneficiation of ores and minerals is restricted to the following activities: Crushing; grinding; washing; dissolution; crystallization; filtration; sorting; sizing; drying; sintering; pelletizing; briquetting; calcining to remove water and/or carbon dioxide; roasting, autoclaving, and/or chlorination in preparation for leaching (except where the roasting (and/or autoclaving and/or chlorination)/leaching sequence produces a final or intermediate product that does not undergo further beneficiation or processing); gravity concentration; magnetic separation; electrostatic separation; flotation; ion exchange; solvent extraction; electrowinning; precipitation; amalgamation; and heap, dump, vat, tank, and in situ leaching.
- ...(ii) (II) For the purpose of Section 1(d)(ii)(G) of this Chapter, waste material from the processing of ores and minerals includes only the following wastes:
- ...(ii)(A) (1.) Slag from primary copper processing;
- ...(ii)(B) (2.) Slag from primary lead processing;
- ...(ii)(C) (3.) Red and brown muds from bauxite refining;
- ...(ii)(D)  $\qquad \qquad \text{(4.)} \quad \text{Phosphogypsum from phosphoric} \\ \text{acid production;}$

- ...(ii)(E) (5.) Slag from elemental phosphorus production;
- ...(ii)(F) (6.) Gasifier ash from coal qasification;
- ...(ii)(G) (7.) Process wastewater from coal gasification;
- $\dots$  (ii)(H) (8.) Calcium sulfate wastewater treatment plant sludge from primary copper processing;
- ...(ii)(I) (9.) Slag tailings from primary copper processing;
- ...(ii)(J)  $\qquad \qquad \text{(10.) Fluorogypsum from hydrofluoric} \\ \text{acid production;}$
- ...(ii)(K) (11.) Process wastewater from hydrofluoric acid production;
- ...(ii)(L) (12.) Air pollution control dust/sludge from iron blast furnaces;
- ...(ii)(M) (13.) Iron blast furnace slag;
- ...(ii)(N)  $\hspace{1.5cm} \text{(14.) Treated residue from roasting/leaching of chrome ore;}$
- ...(ii)(0)  $\qquad \qquad \text{(15.) Process wastewater from primary magnesium processing by the anhydrous process;}$
- ...(ii)(P) (16.) Process wastewater from phosphoric acid production;
- $\dots$  (ii)(Q) (17.) Basic oxygen furnace and open hearth furnace air pollution control dust/sludge from carbon steel production;
- ...(ii)(R) (18.) Basic oxygen furnace and open hearth furnace slag from carbon steel production;
- ...(ii)(S) (19.) Chloride process waste solids from titanium tetrachloride production;
- ...(ii)(T) (20.) Slag from primary zinc processing.
- ...(iii) (III) A residue derived from co-processing mineral processing secondary materials with normal beneficiation raw materials or with normal mineral processing raw materials remains excluded under Section 1(d)(ii) of this Chapter if the owner or operator:
- ...(iii)(A) (1.) Processes at least 50 percent by weight normal beneficiation raw materials or normal mineral processing raw materials; and,
- 261.4(b)(8) (H) Cement kiln dust waste, except as provided by Chapter 12, Section  $8\,(\text{m})$  of these rules and regulations for facilities that burn or process hazardous waste.

- 261.4(b)(9) (I) Waste material which consists of discarded arsenical-treated wood or wood products which fails the test for the Toxicity Characteristic for hazardous waste codes D004 through D017 and which is not a hazardous waste for any other reason if the waste is generated by persons who utilize the arsenical-treated wood and wood product for these materials' intended end use.
- 261.4(b)(10) (J) Petroleum-contaminated media and debris that fail the test for the toxicity characteristic of Section 3(e) of this Chapter (Hazardous Waste Codes D018 through D043 only) and are subject to the corrective action regulations under 40 CFR Part 280.

### 261.4(b)(11) (K) Reserved. ^

- 261.4(b)(12) (L) Used chlorofluorocarbon refrigerants from totally enclosed heat transfer equipment, including mobile air conditioning systems, mobile refrigeration, and commercial and industrial air conditioning and refrigeration systems that use chlorofluorocarbons as the heat transfer fluid in a refrigeration cycle, provided the refrigerant is reclaimed for further use.
- 261.4(b)(13) (M) Non-terne plated used oil filters that are not mixed with wastes listed in Section 4 of this Chapter if these oil filters have been gravity hot-drained using one of the following methods:
- ...(i) Puncturing the filter anti-drain back valve or the filter dome end and hot-draining;
- ...(ii) (II) Hot-draining and crushing;
- ...(iii) (III) Dismantling and hot-draining; or
- ...(iv)  $\qquad \qquad \text{(IV)} \quad \text{Any other equivalent hot-draining} \\ \text{method that will remove used oil.}$
- 261.4(b)(14) (N) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products.
- 261.4(b)(15) (O) Leachate or gas condensate collected from landfills where certain waste materials have been disposed, provided that:
- ...(i)

  (I) The waste materials disposed would meet one or more of the listing descriptions for Hazardous Waste Codes K169, K170, K171, and K172 if these wastes had been generated after the effective date of the listing (February 8, 1999);
- ...(ii) (II) The waste materials described in Section 1(d)(ii)(0)(I) of this Chapter were disposed prior to the effective date of the listing;
- ...(iii) (III) The leachate or gas condensate do not exhibit any characteristic of hazardous waste nor are derived from any other listed hazardous waste;
- ...(iv) (IV) Discharge of the leachate or gas condensate, including leachate or gas condensate transferred from the landfill to a POTW by truck, rail, or dedicated pipe, is subject to regulation under Sections 307(b) or 402 of the Clean Water Act.
- ...(v)  $(V) \quad \text{After February 13, 2001, leachate or} \\ \text{gas condensate } \textbf{shall ^ no longer be exempt if it is stored or managed} \\ \text{in a surface impoundment prior to discharge. There is one exception:}$

if the surface impoundment is used to temporarily store leachate or gas condensate in response to an emergency situation (e.g., shutdown of wastewater treatment system), provided the impoundment has a double liner, and provided the leachate or gas condensate is removed from the impoundment and continues to be managed in compliance with the conditions of this paragraph after the emergency ends.

- 261.4(c) (iii) Hazardous wastes which are exempted from certain regulations. A hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste-treatment-manufacturing unit, is not subject to regulation under Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; and Chapter 13 of these rules and regulations or to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials.
- 261.4(d) (iv) Samples.
- 261.4(d)(1)

  (A) Except as provided in Section 1(d)(iv)(B) of this Chapter, a sample of waste material or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of Chapter 1, Sections 1(h)-1(j); Chapters 2 through 11; Chapter 12, Sections 1 through 8, 19 and 20; or Chapter 13 of these rules and regulations or to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations, when:
- ...(i) (I) The sample is being transported to a laboratory for the purpose of testing; or
- ...(ii) (II) The sample is being transported back to the sample collector after testing; or
- ...(iii) (III) The sample is being stored by the sample collector before transport to a laboratory for testing; or
- ...(iv)  $\qquad \qquad \text{(IV)} \quad \text{The sample is being stored in a laboratory before testing; or } \\$
- ...(v)  $\qquad \qquad \text{(V)} \quad \text{The sample is being stored in a} \\ \text{laboratory after testing but before it is returned to the sample} \\ \text{collector; or}$
- ...(vi) (VI) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action where further testing of the sample may be necessary).
- 261.4(d)(2) (B) In order to qualify for the exemption in Sections 1(d)(iv)(A)(I) and 1(d)(iv)(A)(II) of this Chapter, a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:
- ...(i) (I) Comply with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
- ...(ii) (II) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:

- $\dots$  (ii)(A) (1.) Assure that the following information accompanies the sample:
- ...(ii)(A)(1) a. The sample collector's name, mailing address, and telephone number;
- ...(ii)(A)(2) b. The laboratory's name, mailing address, and telephone number;
- ...(ii)(A)(3) c. The quantity of the sample;
- ...(ii)(A)(4) d. The date of shipment; and
- ...(ii)(A)(5) e. A description of the sample.
- ...(ii)(B)  $\qquad \qquad (2.) \ \ \text{Package the sample so that it} \\ \text{does not leak, spill, or vaporize from its packaging.}$
- 261.4(d)(3) (C) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in Section 1(d)(iv)(A) of this Chapter.
- 261.4(e) (v) Treatability Study Samples.
- 261.4(e)(1) (A) Except as provided in Section 1(d)(v)(B) of this Chapter, persons who generate or collect samples for the purpose of conducting treatability studies as defined in Chapter 1, Section 1(f)(i) of these rules and regulations, are not subject to any requirement of Chapter 2 and Chapters 8 and 9 of these rules and regulations or to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations, nor are such samples included in the quantity determinations of Section 1(e) of this Chapter and Chapter 8, Section 3(e)(iv) of these rules and regulations when:
- ...(i) (I) The sample is being collected and prepared for transportation by the generator or sample collector; or
- ...(ii) (II) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or
- ...(iii) (III) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study.
- 261.4(e)(2) (B) The exemption in Section 1(d)(v)(A) of this Chapter is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies provided that:
- ...(i)

  (I) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with non-acute hazardous waste, 1000 kg of non-acute hazardous waste other than contaminated media, 1 kg of acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste for each process being evaluated for each generated waste stream; and
- ...(ii) (II) The mass of each sample shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media

contaminated with non-acute hazardous waste, or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of hazardous waste, and 1 kg of acute hazardous waste; and

- ...(iii) (III) The sample must be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of Section 1(d)(v)(B)(III)(1.) or (2.) of this Chapter are met.
- ...(iii)(A) (1.) The transportation of each sample shipment complies with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
- ...(iii)(B) (2.) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:
- ...(iii)(B) a. The name, mailing address, and telephone number of the originator of the sample;
- ...(iii)(B)(2) b. The name, address, and telephone number of the facility that will perform the treatability study;
- ...(iii)(B)(3) c. The quantity of the sample;
- ...(iii)(B)(4) d. The date of shipment; and
- ...(iii)(B)(5) e. A description of the sample, including its EPA hazardous waste number.
- ...(iv) (IV) The sample is shipped to a laboratory or testing facility which is exempt under Section 1(d)(vi) of this Chapter or has an appropriate State hazardous waste management facility permit or interim status under Chapter 11 of these rules and regulations.
- ...(v) (V) The generator or sample collector maintains the following records for a period ending 3 years after completion of the treatability study:
- ...(v)(A) (1.) Copies of the shipping documents;
- $\dots$ (v)(B) (2.) A copy of the contract with the facility conducting the treatability study;
- ...(v)(C) (3.) Documentation showing:
- $\dots (v)(C)(1)$  a. The amount of waste shipped under this exemption;
- $\dots$ (v)(C)(2) b. The name, address, and EPA identification number of the laboratory or testing facility that received the waste;
- ...(v)(C)(3) c. The date the shipment was made; and
- ...(v)(C)(4)  $\qquad \qquad \text{d.} \qquad \text{Whether or not unused} \\ \text{samples and residues were returned to the generator.}$
- ...(vi)  $(VI) \ \ \text{The generator reports the information } \\ \text{required under Section } 1(d)(v)(B)(V)(3.) \text{ of this Chapter in its } \\ \text{biennial report.}$

- 261.4(e)(3)

  (C) The Director may grant requests on a case-by-case basis for up to an additional two years for treatability studies involving bioremediation. The Director may grant requests on a case-by-case basis for quantity limits in excess of those specified in Sections 1(d)(v)(B)(I) and 1(d)(v)(B)(II) and 1(d)(vi)(D) of this Chapter, for up to an additional 5000 kg of media contaminated with non-acute hazardous waste, 500 kg of non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste and 1 kg of acute hazardous waste:
- ...(i)

  (I) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology, the type of process (e.g., Batch versus continuous), size of the unit undergoing testing (particularly in relation to scale-up considerations), the time/quantity of material required to reach steady state operating conditions, or test design considerations such as mass balance calculations.
- ...(ii) (II) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities after initiation or completion of initial treatability studies, when: there has been an equipment or mechanical failure during the conduct of a treatability study; there is a need to verify the results of a previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.
- ...(iii)(A)

  (1.) The reason why the generator or sample collector requires additional time or quantity of sample for treatability study evaluation and the additional time or quantity needed;
- ...(iii)(B)

  (2.) Documentation accounting for all samples of hazardous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results on each treatability study;
- ...(iii)(C)  $\qquad \qquad (3.) \quad \text{A description of the technical} \\ \text{modifications or change in specifications which will be evaluated and} \\ \text{the expected results;}$
- ...(iii)(D) (4.) If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and
- ...(iii)(E)  $\hspace{1.5cm} \text{ (5.)} \hspace{0.5cm} \text{Such other information that the } \\ \hspace{0.5cm} \text{Director considers necessary.}$

- laboratories and testing facilities. Samples undergoing treatability studies at laboratories and testing facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to W.S. 35-11-503(d) requirements) are not subject to any requirement of this Chapter; Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations, or to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations provided that the conditions of Sections 1(d)(vi)(A) through (K) of this Chapter are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to Sections 1(d)(vi)(A) through (K) of this Chapter. Where a group of MTUs are located at the same site, the limitations specified in Sections 1(d)(vi)(A) through (K) of this Chapter apply to the entire group of mtus collectively as if the group were one MTU.
- 261.4(f)(1) (A) No less than 45 days before conducting treatability studies, the facility notifies the Director, in writing that it intends to conduct treatability studies under Section 1(d)(vi) of this Chapter.
- (B) The laboratory or testing facility conducting the treatability study has an EPA identification number.
- 261.4(f)(3) (C) No more than a total of 10,000 kg of "as received" media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste or 250 kg of other "as received" hazardous waste is subject to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.
- 261.4(f)(4) (D) The quantity of "as received" hazardous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 10,000 kg, the total of which can include 10,000 kg of media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, 1000 kg of non-acute hazardous wastes other than contaminated media, and 1 kg of acute hazardous waste. This quantity limitation does not include treatment materials (including nonhazardous solid waste) added to "as received" hazardous waste.
- 261.4(f)(5)

  (E) No more than 90 days have elapsed since the treatability study for the sample was completed, or no more than one year (two years for treatability studies involving bioremediation) have elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs. Up to 500 kg of treated material from a particular waste stream from treatability studies may be archived for future evaluation up to five years from the date of initial receipt. Quantities of materials archived are counted against the total storage limit for the facility.
- 261.4(f)(6) (F) The treatability study does not involve the placement of hazardous waste on the land or open burning of hazardous waste.
- 261.4(f)(7) (G) The facility maintains records for 3 years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:

- ...(i) (I) The name, address, and EPA identification number of the generator or sample collector of each waste sample;
- ...(ii) The date the shipment was received;
- ...(iii) (III) The quantity of waste accepted;
- ...(iv) The quantity of "as received" waste in storage each day;
- ...(v) (V) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;
- ...(vi) The date the treatability study was concluded;
- ...(vii) (VII) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated facility, the name of the facility and the EPA identification number.
- 261.4(f)(8) (H) The facility keeps, on-site, a copy of the treatability study contract and all shipping papers associated with the transport of treatability study samples to and from the facility for a period ending three (3) years from the completion date of each treatability study.
- 261.4(f)(9)

  (I) The facility prepares and submits a report to the DEQ Director, by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:
- ...(i)  $\hspace{1cm} \text{(I)} \hspace{1cm} \text{The name, address, and EPA} \\ \hspace{1cm} \text{identification number of the facility conducting the treatability} \\ \hspace{1cm} \text{studies;}$
- ...(ii) (II) The types (by process) of treatability studies conducted;
- ...(iii) (III) The names and addresses of persons for whom studies have been conducted (including their EPA identification numbers);
- ...(iv)  $\qquad \qquad \text{(IV)} \quad \text{The total quantity of waste in storage} \\ \quad \text{each day;} \\$
- $\dots$ (V) The quantity and types of waste subjected to treatability studies;
- ...(vi) (VI) When each treatability study was conducted;
- $\dots$  (VII) The final disposition of residues and unused sample from each treatability study.
- 261.4(f)(10) (J) The facility determines whether any unused sample or residues generated by the treatability study are hazardous waste under Section 1(c) of this Chapter and, if so, are subject to Chapter 1, Sections 1(h)-1(j); Chapter 2; Chapter 3, Section 2; Chapter 4; Chapter 5; Chapter 6, Section 2; Chapter 7; Chapters 8 through 11; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations, unless the residues and unused

- samples are returned to the sample originator under the Section l(d)(v) of this Chapter exemption.
- 261.4(f)(11) (K) The facility notifies the DEQ Director, by letter when the facility is no longer planning to conduct any treatability studies at the site.
- 261.4(g) (vii) Dredged material that is not a hazardous waste.

  Dredged material that is subject to the requirements of a permit that has been issued under 404 of the Federal Water Pollution Control Act (33 U.S.C.1344) or Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413) is not a hazardous waste. For Section 1(c)(vii) of this Chapter, the following definitions apply:
- 261.4(g)(1) (A) The term dredged material has the same meaning as defined in 40 CFR 232.2;
- 261.4(g)(2) (B) The term permit means:
- ...(i) (I) A permit issued by the U.S. Army Corps of Engineers (Corps) or an approved State under Section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344);
- ...(ii) (II) A permit issued by the Corps under Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413); or
- ...(iii) (III) In the case of Corps civil works projects, the administrative equivalent of the permits referred to in Section 1(d)(vii)(B)(I) and (II) of this Chapter, as provided for in Corps regulations (for example, see 33 CFR 336.1, 336.2, and 337.6).
- 261.5 (e) SPECIAL REQUIREMENTS FOR HAZARDOUS WASTE GENERATED BY CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS.
- 261.5(a) (i) A generator is a conditionally exempt small quantity generator in a calendar month if he or she generates no more than 100 kilograms of hazardous waste in that month.
- 261.5(b)

  (ii) Except for those wastes identified in Sections 1(e)(v), 1(e)(vi), 1(e)(vii) and 1(e)(x) of this Chapter, a conditionally exempt small quantity generator's hazardous wastes are not subject to regulation under Chapters 3 through 11; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations, and the notification requirements of Chapter 1, Section 1(h) of these rules and regulations, provided the generator complies with the requirements of Sections 1(e)(vi), 1(e)(vii), and 1(e)(x) of this Chapter.
- 261.5(c) (iii) When making the quantity determinations of Chapter 2 and Chapter 8 of these rules and regulations, the generator must include all hazardous waste that it generates, except hazardous waste that:
- 261.5(c)(1) (A) Is exempt from regulation under Section 1(d)(iii) through (vi), Section 1(f)(i)(C), Section 1(g)(i)(A), or Section 1(h) of this Chapter; or
- 261.5(c)(2)

  (B) Is managed immediately upon generation only in on-site elementary neutralization units, wastewater treatment units, or totally enclosed treatment facilities as defined in Chapter 1, Section 1(f)(i) of these rules and regulations; or
- 261.5(c)(3) (C) Is recycled, without prior storage or

- accumulation, only in an on-site process subject to regulation under Section 1(f)(iii)(B) of this Chapter; or
- 261.5(c)(4) (D) Is used oil managed under the requirements of Section 1(f)(i)(D) of this Chapter and Chapter 12, Sections 9 through 17 of these rules and regulations; or
- 261.5(c)(5) (E) Is spent lead-acid batteries managed under the requirements of Chapter 12, Section 7 of these rules and regulations, or used batteries (or used battery cells) returned to a battery manufacturer for regeneration; or
- 261.5(c)(6) (F) Is universal waste managed under Section 1(i) of this Chapter and Chapter 14 of these rules and regulations.
- 261.5(d) (iv) In determining the quantity of hazardous waste generated, a generator need not include:
- 261.5(d)(1) (A) Hazardous waste when it is removed from onsite storage; or
- 261.5(d)(2) (B) Hazardous waste produced by on-site treatment (including reclamation) of his or her hazardous waste, so long as the hazardous waste that is treated was counted once; or
- 261.5(d)(3) (C) Spent materials that are generated, reclaimed, and subsequently reused on-site, so long as such spent materials have been counted once.
- 261.5(e) (v) If a generator generates acute hazardous waste in a calendar month in quantities greater than set forth below, all quantities of that acute hazardous waste are subject to full regulation under Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations, and the notification requirements of Chapter 1, Section 1(h) of these rules and regulations:
- 261.5(e)(1) (A) A total of one kilogram of acute hazardous wastes listed in Section 4(b), 4(c), or 4(d)(v) of this Chapter.
- 261.5(e)(3) (B) A total of 100 kilograms of any residue or contaminated soil, waste, or other debris resulting from the clean-up of a spill, into or on any land or water, of any acute hazardous wastes listed in Section 4(b), 4(c), or 4(d)(v) of this Chapter.
  - [Comment: "Full regulation" means those regulations applicable to generators of greater than 1,000 kg of non-acutely hazardous waste in a calendar month.]
- 261.5(f) (vi) In order for acute hazardous wastes generated by a generator of acute hazardous wastes in quantities equal to or less than those set forth in Section 1(e)(v)(A) or (B) of this Chapter to be excluded from full regulation under Section 1(e) of this Chapter, the generator must comply with the following requirements:
- 261.5(f)(1) (A) Chapter 8, Section 1(b) of these rules and regulations;
- 261.5(f)(2) (B) The generator may accumulate acute hazardous waste on-site. If he or she accumulates at any time acute hazardous wastes in quantities greater than those set forth in Section 1(e)(v)(A) or (B) of this Chapter, all of those accumulated wastes are subject to regulation under Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13, of these rules and regulations, and the applicable

notification requirements of Chapter 1, Section 1(h) of these rules and regulations. The time period of Chapter 8, Section 3(e)(i) of these rules and regulations, for accumulation of wastes on-site, begins when the accumulated wastes exceed the applicable exclusion limit;

- 261.5(f)(3)

  (C) A conditionally exempt small quantity generator may either treat or dispose of his or her acute hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage or disposal facility, either of which, if located in the U.S., is:
- ...(i)

  (I) Permitted under Chapter 1, Sections 1(h)-1(j); Chapter 3, Section 2; Chapter 4; Chapter 6, Section 2; Chapter 7; and Chapter 11, Section 2 of these rules and regulations or 40 CFR Part 270;
- ...(ii) (II) In interim status under Chapter 1, Sections 1(h)-1(j); Chapter 3, Section 2; Chapter 4; Chapter 5; Chapter 6, Section 2; Chapter 7; and Chapter 11 of these rules and regulations or 40 CFR Parts 270 and 265;
- ...(iii) (III) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under 40 CFR Part 271;
- ...(iv) (IV) Permitted, licensed, or registered by a State to manage municipal solid waste and, if managed in a municipal solid waste landfill is subject to 40 CFR Part 258;
- ...(v) (V) Permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste and, if managed in a non-municipal, non-hazardous waste disposal unit after January 1, 1998, is subject to the requirements in 40 CFR Sections 257.5 through 257.30; or
- ...(vi) (VI) A facility which:
- ...(vi)(A)  $\hspace{1cm} \text{(1.) Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or } \\$
- ...(vi)(B) (2.) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or
- ...(vii)

  (VII) For universal waste managed under Chapter 14 of these rules and regulations or 40 CFR Part 273, a universal waste handler or destination facility subject to the requirements of Chapter 14 of these rules and regulations or 40 CFR 273 or a State universal waste program approved under 40 CFR Part 271
- 261.5(g) (vii) In order for hazardous waste generated by a conditionally exempt small quantity generator in quantities of less than 100 kilograms of hazardous waste during a calendar month to be excluded from full regulation under Section 1(e) of this Chapter, the generator must comply with the following requirements:
- 261.5(g)(1) (A) Chapter 8, Section 1(b) of these rules and regulations;
- 261.5(g)(2) (B) The conditionally exempt small quantity generator may accumulate hazardous waste on-site. If he or she accumulates at any time more than a total of 1000 kilograms of his or her hazardous wastes, all of those accumulated wastes are subject to regulation under the special provisions of Chapter 8 of these rules

and regulations applicable to generators of between 100 kg and 1000 kg of hazardous waste in a calendar month as well as the requirements of Chapter 1, Sections 1(h)-1(j); Chapters 3 through 7; Chapters 9 through 11; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations, and the applicable notification requirements of Chapter 1, Section 1(h) of these rules and regulations. The time period of Chapter 8, Section 3(e)(iv) of these rules and regulations for accumulation of wastes on-site begins for a conditionally exempt small quantity generator when the accumulated wastes exceed 1000 kilograms;

- 261.5(g)(3)

  (C) A conditionally exempt small quantity generator may either treat or dispose of his or her hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage or disposal facility, either of which, if located in the U.S., is:
- ...(i)

  (I) Permitted under Chapter 1, Sections 1(h)-1(j); Chapter 3, Section 2; Chapter 4; Chapter 6, Section 2; Chapter 7; and Chapter 11, Section 2 of these rules and regulations or 40 CFR Part 270;
- ...(ii) (II) In interim status under Chapter 1, Sections 1(h)-1(j); Chapter 3, Section 2; Chapter 4; Chapter 5; Chapter 6, Section 2; Chapter 7; and Chapter 11 of these rules and regulations or 40 CFR Parts 270 and 265;
- ...(iii) (III) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under 40 CFR Part 271;
- ...(iv) (IV) Permitted, licensed, or registered by a State to manage municipal solid waste and, if managed in a municipal solid waste landfill is subject to 40 CFR Part 258;
- ...(v) (V) Permitted, licensed. or registered by a State to manage non-municipal non-hazardous waste and, if managed in a non-municipal non-hazardous waste disposal unit after January 1, 1998, is subject to the requirements of 40 CFR Sections 257.5 through 257.30; or
- ...(vi) (VI) A facility which:
- ...(vi)(A)  $\qquad \qquad \text{(1.)} \ \ \, \text{Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or } \\$
- ...(v)(B)  $\hspace{1.5cm} (2.) \hspace{0.5cm} \text{Treats its waste prior to} \\ \hspace{0.5cm} \text{beneficial use or reuse, or legitimate recycling or reclamation; or}$
- ...(vii)

  (VII) For universal waste managed under Chapter 14 of these rules and regulations or 40 CFR Part 273, a universal waste handler or destination facility subject to the requirements of Chapter 14 of these rules and regulations or 40 CFR 273 or a State universal waste program approved under 40 CFR Part 271.
- 261.5(h) (viii) Hazardous waste subject to the reduced requirements of Section 1(e) of this Chapter may be mixed with non-hazardous waste and remain subject to these reduced requirements even though the resultant mixture exceeds the quantity limitations identified in Section 1(e) of this Chapter, unless the mixture meets any of the characteristics of hazardous waste identified in Section 3 of this Chapter.
- 261.5(i) (ix) If any person mixes a waste material with a

hazardous waste that exceeds a quantity exclusion level of Section 1(e) of this Chapter, the mixture is subject to full regulation.

- 261.5(j) (x) If a conditionally exempt small quantity generator's wastes are mixed with used oil, the mixture is subject to regulation under Chapter 12, Sections 9 through 17 of these rules and regulation if it is destined to be burned for energy recovery. Any material produced from such a mixture by processing, blending, or other treatment is also so regulated if it is destined to be burned for energy recovery.
- 261.6 (f) REQUIREMENTS FOR RECYCLABLE MATERIALS.

#### (i) Requirements

- 261.6(a)(1)

  (A) Hazardous wastes that are recycled are subject to the requirements for generators, transporters, and storage facilities of Sections 1(f)(ii) and (iii) of this Chapter, except for the materials listed in Sections 1(f)(i)(B) and 1(f)(i)(C) of this Chapter. Hazardous wastes that are recycled will be known as "recyclable materials."
- 261.6(a)(2)

  (B) The following recyclable materials are not subject to the requirements of Section 1(f) of this Chapter but are regulated under Chapter 12, Section 3 and Sections 6 through 8 of these rules and regulations and all applicable provisions in Chapter 1, Sections 1(h)-1(j); Chapter 3; Chapter 4; Chapter 6; Chapter 7; and Chapter 11, Section 2 of these rules and regulations:
- ...(i) (I) Recyclable materials used in a manner constituting disposal (Chapter 12, Section 3 of these rules and regulations);
- ...(ii) (II) Hazardous wastes burned for energy recovery in boilers and industrial furnaces that are not regulated under Chapter 10, Section 14 or Chapter 11, Section 16 of these rules and regulations (Chapter 12, Section 8 of these rules and regulations);
- ...(iii) (III) Recyclable materials from which precious metals are reclaimed (Chapter 12, Section 6 of these rules and regulations);
- ...(iv) (IV) Spent lead-acid batteries that are being reclaimed (Chapter 12, Section 7 of these rules and regulations).
- 261.6(a)(3)

  (C) The following recyclable materials are not subject to regulation under Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; Chapter 12, Sections 1 through 8, 19 and 20; or Chapter 13 of these rules and regulations, and are not subject to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations:
- ...(i) (I) Industrial ethyl alcohol that is reclaimed except that, unless provided otherwise in an international agreement as specified in Chapter 8, Section 5(i) of these rules and regulations:
- ...(i)(A) (1.) A person initiating a shipment for reclamation in a foreign country, and any intermediary arranging for the shipment, must comply with the requirements applicable to a primary exporter in Chapter 8, Sections 5(d), 5(g)(i)(A)-(D), 5(g)(i)(F), 5(g)(ii) and 5(h) of these rules and regulations, export such materials only upon consent of the receiving country and in

conformance with the EPA acknowledgment of consent as defined in Chapter 8, Section 5 of these rules and regulations, and provide a copy of the EPA acknowledgment of consent to the shipment to the transporter transporting the shipment for export;

- ...(i)(B)

  (2.) Transporters transporting a shipment for export may not accept a shipment if he or she knows the shipment does not conform to the EPA acknowledgment of consent, must ensure that a copy of the EPA acknowledgment of consent accompanies the shipment and must ensure that it is delivered to the facility designated by the person initiating the shipment.
- ...(ii) (II) Scrap metal that is not excluded under Section 1(d)(i)(M) of this Chapter;
- ...(iii)

  (III) Fuels produced from the refining of oil-bearing hazardous wastes along with normal process streams at a petroleum refining facility if such wastes result from normal petroleum refining, production, and transportation practices; this exemption does not apply to fuels produced from oil recovered from oil-bearing hazardous waste, where such recovered oil is already excluded under Section 1(d)(i)(1) of this Chapter.
- ...(iv) (IV) The following fuels:
- ...(iv)(A)

  (1.) Hazardous waste fuel produced from oil-bearing hazardous wastes from petroleum refining, production, or transportation practices, or produced from oil reclaimed from such hazardous wastes, where such hazardous wastes are reintroduced into a process that does not use distillation or does not produce products from crude oil so long as the resulting fuel meets the used oil specification under Chapter 12, Section 10(b) of these rules and regulations and so long as no other hazardous wastes are used to produce the hazardous waste fuel;
- ...(iv)(B) (2.) Hazardous waste fuel produced from oil-bearing hazardous waste from petroleum refining production, and transportation practices, where such hazardous wastes are reintroduced into a refining process after a point at which contaminants are removed, so long as the fuel meets the used oil fuel specification under Chapter 12, Section 10(b) of these rules and regulations; and
- ...(iv)(C)  $(3.) \ \, \text{Oil reclaimed from oil-bearing} \\ \text{hazardous wastes from petroleum refining, production, and} \\ \text{transportation practices, which reclaimed oil is burned as a fuel} \\ \text{without reintroduction to a refining process, so long as the} \\ \text{reclaimed oil meets the used oil fuel specification under Chapter 12,} \\ \text{Section 10(b) of these rules and regulations.}$
- 261.6(a)(4)

  (D) Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic is not subject to the requirements of Chapter 1, Sections 1(a) through 1(g) and Section 3; Chapter 2; Chapter 5; Chapters 8 through 10; Chapter 11, Section 1 and Sections 4 through 32; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations, but is regulated under Chapter 12, Sections 9 through 17 of these rules and regulations. Used oil that is recycled includes any used oil which is reused, following its original use, for any purpose (including the purpose for which the oil was originally used). Such term includes, but is not limited to, oil which is rerefined, reclaimed, burned for energy recovery, or reprocessed.
- 261.6(a)(5) (E) Hazardous waste that is exported to or imported from designated member countries of the Organization for

Economic Cooperation and Development (OECD) (as defined in Chapter 1, Section 1(f)(i) of these rules and regulations for purpose of recovery is subject to the requirements of subpart H of 40 CFR Part 262 (see Chapter 8, Section 1(a)(iv) of these rules and regulations), if it is subject to either the manifesting requirements of Chapter 8 of these rules and regulations, or to the universal waste management standards of Chapter 14 of these rules and regulations.

- 261.6(b) (ii) Generators and transporters of recyclable materials are subject to the applicable requirements of Chapters 8 and 9 of these rules and regulations and the notification requirements under Chapter 1, Section 1(h) of these rules and regulations, except as provided in Section 1(f)(i) of this Chapter.
- 261.6(c)(1) (iii) Owners and operators of facilities that:
- 261.6(c)(1)

  (A) Store recyclable materials before they are recycled are regulated under all applicable provisions of Chapter 10, Sections 1 through 11, 26, 27 and 28; Chapter 11, Section 1 and Sections 4 through 13, 28, 29 and 30; and Chapter 5 of these rules and regulations, and under Chapter 3; Chapter 4; Chapter 6; Chapter 7; Chapter 11, Section 2; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations and the notification requirements under Chapter 1, Section 1(h) of these rules and regulations, except as provided in Section 1(f)(i) of this Chapter. (The recycling process itself is exempt from regulation except as provided in Section 1(f)(iv) of this Chapter.)
- 261.6(c)(2) (B) Owners or operators of facilities that recycle recyclable materials without storing them before they are recycled are subject to the following requirements, except as provided in Section 1(f)(i) of this Chapter:
- ...(i) (I) Notification requirements under Chapter 1, Section 1(h) of these rules and regulations;
- ...(ii) (II) Chapter 11, Sections 7(b) and 7(c) of these rules and regulations (dealing with the use of the manifest and manifest discrepancies) of this Chapter.
- ...(lii) (III) Section 1(f)(iv) of this Chapter.
- 261.6(d) (iv) Owners or operators of facilities subject to State hazardous waste management facility permitting requirements with hazardous waste management units that recycle hazardous wastes are subject to the requirements of Chapter 10, Sections 26 and 27 or Chapter 11, Sections 28 and 29 of these rules and regulations.
  - (v) The Director may determine that a proposed hazardous waste recycling activity constitutes sham recycling. Hazardous waste treatment or disposal activity determined to be sham recycling shall be subject to the permitting requirements under these rules and regulations. The Director shall consider the following criteria in making this determination.
  - (A) The secondary material contains a hazardous constituent defined in Chapter 2, Appendix H of these rules and regulations not found in the analogous raw material or at greater levels than the analogous raw material;
  - (B) The secondary material exhibits a hazardous characteristic that the analogous raw material does not;
  - (C) The secondary material is being used in excess of the amount of raw material that would otherwise be used;

- (D) The recycling process (including storage) is likely to release hazardous constituents or otherwise pose risks to human health and/or the environment that are different from or greater than the risks posed by the processing of an analogous raw material or product;
- (E) The secondary material to be recycled does not have value as a raw material or product and there is not guaranteed market for the end product;
- (F) The secondary material is not handled in a manner consistent with the raw material or product it replaces;
- (G) The toxic constituent in the secondary material is useful in the production of the product or the product itself;
  - (H) Economics of the recycling process; or
  - (I) Other factors the director deems relevant.
- (vi) No process in which liquids, solids, sludges, or dissolved constituents are collected or separated in process units for recycling, recovery or reuse including the recovery of energy, within a continuous or batch manufacturing or refining process shall be considered a sham recycling activity under Section 1(f)(v) of this Chapter.
- 261.7 (g) RESIDUES OF HAZARDOUS WASTE IN EMPTY CONTAINERS.
  - (i) Residues:
- 261.7(a)(1)

  (A) Any hazardous waste remaining in either (i) an empty container or, in an inner liner removed from an empty container, as defined in Section 1(g)(ii) of this Chapter, is not subject to regulation under this Chapter; Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; or Chapter 13 of these rules and regulations or to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations.
- 261.7(a)(2)

  (B) Any hazardous waste in either a container that is not empty or, in an inner liner removed from a container that is not empty, as defined in Section 1(g)(ii) of this Chapter, is subject to regulation under this Chapter; Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; and Chapter 13 of these rules and regulations and to the notification requirements of Chapter 1, Section 1(h) of these rules and regulations.
  - (ii) Empty containers:
- 261.7(b)(1)

  (A) A container or an inner liner removed from a container that has held any hazardous waste, except a waste that is a compressed gas or that is identified as an acute hazardous waste listed in Section 4(b), 4(c), or 4(d)(v) of this Chapter is empty if:
- ...(i)

  (I) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and
- ...(ii) (II) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container or inner liner, or
- ...(iii)(A) (III) No more than 3 percent by weight of the

total capacity of the container remains in the container or inner liner if the container is less than or equal to 110 gallons in size, or

- ...(iii)(B) (IV) No more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 110 gallons in size.
- 261.7(b)(2) (B) A container that has held a hazardous waste that is a compressed gas is empty when the pressure in the container approaches atmospheric.
- 261.7(b)(3) (C) A container or an inner liner removed from a container that has held an acute hazardous waste listed in Section 4(b), 4(c) or 4(d)(v) of this Chapter is empty if:
- ...(i) (I) The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;
- ...(ii) (II) The container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or
- ...(iii) (III) In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed.
- 261.8 (h) PCB WASTES REGULATED UNDER TOXIC SUBSTANCE CONTROL ACT.

The disposal of PCB-containing dielectric fluid and electric equipment containing such fluid authorized for use and regulated under 40 CFR part 761 and that are hazardous only because they fail the test for the Toxicity Characteristic (Hazardous Waste Codes D018 through D043 only) are exempt from regulation under this Chapter; Chapter 1, Sections 1(h)-1(j); Chapters 3 through 11; and Chapter 13 of these rules and regulations, and the notification requirements of Chapter 1, Section 1(h) of these rules and regulations.

- 261.9 (i) REQUIREMENTS FOR UNIVERSAL WASTE.
  - (i) The wastes listed in this Section are exempt from regulation under Chapter 1, Sections 1(h) through 1(j); Chapter 3, Section 2; Chapters 4; Chapter 5; Chapter 6, Section 2; Chapter 7; Chapters 8 through 11; Chapter 12, Sections 1 through 8, 19 and 20; and Chapter 13 of these rules and regulations, except as specified in Chapter 14 of these rules and regulations and, therefore, are not fully regulated as hazardous waste. The wastes listed in Section 1(i) of this Chapter are subject to regulation under Chapter 14:
- 261.9(a) (A) Batteries as described in Chapter 14, Section 1(b) of these rules and regulations;
- 261.9(b) (B) Pesticides as described in Chapter 14, Section 1(c) of these rules and regulations; and
- 261.9(c) (C) Thermostats as described in Chapter 14, Section 1(d) of these rules and regulations; and
  - (D) Lamps as described in Chapter 14, Section 1(e) of these rules and regulations.
- 261/Subpart B Section 2. CRITERIA FOR IDENTIFYING THE CHARACTERISTICS OF

### HAZARDOUS WASTE AND FOR LISTING HAZARDOUS WASTE.

- 261.10 (a) CRITERIA FOR IDENTIFYING THE CHARACTERISTICS OF HAZARDOUS WASTE.
- 261.10(a) (i) The Director shall identify and define a characteristic of hazardous waste in Section 3 of this Chapter only upon determining that:
- 261.10(a)(1) (A) A waste material that exhibits the characteristic may:
- ...(i) (I) Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or
- ...(ii) (II) Pose a substantial present or potential hazard to human health or the environment when it is improperly treated, stored, transported, disposed of or otherwise managed; and
- 261.10(a)(2) (B) The characteristic can be:
- ...(i) (I) Measured by an available standardized test method which is reasonably within the capability of generators of waste material or private sector laboratories that are available to serve generators of waste material; or
- $\dots$  (II) Reasonably detected by generators of waste material through their knowledge of their waste.
- 261.11 (b) CRITERIA FOR LISTING HAZARDOUS WASTE.
- 261.11(a) (i) The Director shall list a waste material as a hazardous waste only upon determining that the waste material meets one of the following criteria:
- 261.11(a)(1) (A) It exhibits any of the characteristics of hazardous waste identified in Section 3 of this Chapter.
- 261.11(a)(2)

  (B) It has been found to be fatal to humans in low doses or, in the absence of data on human toxicity, it has been shown in studies to have an oral LD 50 toxicity (rat) of less than 50 milligrams per kilogram, an inhalation LC 50 toxicity (rat) of less than 2 milligrams per liter, or a dermal LD 50 toxicity (rabbit) of less than 200 milligrams per kilogram or is otherwise capable of causing or significantly contributing to an increase in serious irreversible, or incapacitating reversible, illness. (Waste listed in accordance with these criteria will be designated Acute Hazardous Waste.)
- 261.11(a)(3)

  (C) It contains any of the toxic constituents listed in Appendix H of this Chapter and, after considering the factors listed below, the Director concludes that the waste is capable of posing a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed. (Wastes listed in accordance with these criteria will be designated toxic wastes.)
- ...(i)  $\hspace{1.5cm} \text{ (I)} \hspace{0.5cm} \text{The nature of the toxicity presented by } \\$  the constituent.
- $...(ii) \\ \hspace{2.5cm} \text{ (II)} \hspace{2.5cm} \text{The concentration of the constituent in the waste.}$
- ...(iii) (III) The potential of the constituent or any

toxic degradation product of the constituent to migrate from the waste into the environment under the types of improper management considered in Section 2(b)(i)(C)(VII) of this Chapter.

- $\dots$  (IV) The persistence of the constituent or any toxic degradation product of the constituent.
- $\dots$ (V) The potential for the constituent or any toxic degradation product of the constituent to degrade into non-harmful constituents and the rate of degradation.
- ...(vi) (VI) The degree to which the constituent or any degradation product of the constituent bioaccumulates in ecosystems.
- ...(vii)  $\qquad \qquad \text{(VII) The plausible types of improper } \\ \text{management to which the waste could be subjected.}$
- ...(viii) (VIII)The quantities of the waste generated at individual generation sites or on a regional or national basis.
- ...(ix) (IX) The nature and severity of the human health and environmental damage that has occurred as a result of the improper management of wastes containing the constituent.
- $\dots$ (X) Action taken by other governmental agencies or regulatory programs based on the health or environmental hazard posed by the waste or waste constituent.
- $\dots$ (XI) Such other factors as may be appropriate.

[Note: Substances will be listed on Appendix H of this Chapter only if they have been shown in scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.]

- 261.11(b) (ii) The Director may list classes or types of waste material as hazardous waste if he or she has reason to believe that individual wastes, within the class or type of waste, typically or frequently are hazardous under the definition of hazardous waste found in W.S. 35-11-103(d)(vii).
- 261.11(c) (iii) The Director will use the criteria for listing specified in Section 2(b) of this Chapter to establish the exclusion limits referred to in Section 1(e)(iii) of this Chapter.
- 261/Subpart C Section 3. CHARACTERISTICS OF HAZARDOUS WASTE.
- 261.20 (a) GENERAL.
- 261.20(a) (i) A waste material, as defined in Section 1(b) Chapter 1, Section 1(f)(i) of these rules and regulations, which is not excluded from regulation as a hazardous waste under Section 1(d)(ii) of this Chapter, is a hazardous waste if it exhibits any of the characteristics identified in this Section.

[Comment: Chapter 8, Section 1(b) of these rules and regulations sets forth the generator's responsibility to determine whether his or her waste exhibits one or more of the characteristics identified in this Section.]

261.20(b) (ii) A hazardous waste which is identified by a characteristic in Section 3 of this Chapter is assigned every EPA hazardous waste number that is applicable as set forth in Section 3

of this Chapter. This number must be used in complying with the notification requirements of Chapter 1, Section 1(h) of these rules and regulations and all applicable recordkeeping and reporting requirements under Chapter 1, Sections 1(h)-1(j); Chapter 3, Section 2; Chapter 4; Chapter 5; Chapter 6, Section 2; Chapter 7; Chapters 8 through 11; and Chapter 13 of these rules and regulations.

261.20(c) (iii) For purposes of this Section, the Director will consider a sample obtained using any of the applicable sampling methods specified in Appendix A of this Chapter to be a representative sample within the meaning of Chapter 1, Sections 1(a) through 1(g) and Section 3 of these rules and regulations.

[Comment: Since the Appendix A (of this Chapter) sampling methods are not being formally adopted by the Director, a person who desires to employ an alternative sampling method is not required to demonstrate the equivalency of his or her method under the procedures set forth in Chapter 1, Sections 3(a) and 3(b) of these rules and regulations]

- 261.21 (b) CHARACTERISTIC OF IGNITABILITY.
- 261.21(a) (i) A waste material exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:
- 261.21(a)(1)

  (A) It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and has flash point less than 60EC (140EF), as determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ASTM Standard D-93-79 or D-93-80 (incorporated by reference, see Chapter 1, Section 1(g) of these rules and regulations), or a Setaflash Closed Cup Tester, using the test method specified in ASTM Standard D-3278-78 (incorporated by reference, see Chapter 1, Section 1(g) of these rules and regulations), or as determined by an equivalent test method approved by the Director under procedures set forth in Chapter 1, Sections 3(a) and 3(b) of these rules and regulations.
- 261.21(a)(2) (B) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard.
- 261.21(a)(3) (C) It is an ignitable compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described in that regulation or equivalent test methods approved by the Director under Chapter 1, Sections 3(a) and 3(b) of these rules and regulations.
- 261.21(a)(4) (D) It is an oxidizer as defined in 49 CFR 173.151.
- 261.21(b) (ii) A waste material that exhibits the characteristic of ignitability has the EPA Hazardous Waste Number of D001.
- 261.22 (c) CHARACTERISTIC OF CORROSIVITY.
- 261.22(a) (i) A waste material exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties:
- 261.22(a)(1) (A) It is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5, as determined by a pH meter using Method 9040 in "Test Methods for Evaluating Solid Waste,

Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in Chapter 1, Section l(g) of these rules and regulations.

- 261.22(a)(2)\*

  (B) It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55EC (130EF) as determined by the test method specified in NACE (National Association of Corrosion Engineers) Standard TM-01-69 as standardized in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in Chapter 1, Section 1(g) of these rules and regulations.
- 261.22(b) (ii) A waste material that exhibits the characteristic of corrosivity has the EPA Hazardous Waste Number of D002.
- 261.23 (d) CHARACTERISTIC OF REACTIVITY.
- 261.23(a) (i) A waste material exhibits the characteristic of reactivity if a representative sample of the waste has any of the following properties:
- 261.23(a)(1) (A) It is normally unstable and readily undergoes violent change without detonating.
- 261.23(a)(2) (B) It reacts violently with water.
- 261.23(a)(3) (C) It forms potentially explosive mixtures with water.
- 261.23(a)(4) (D) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- 261.23(a)(5) (E) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- 261.23(a)(6) (F) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
- 261.23(a)(7) (G) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
- 261.23(a)(8) (H) It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.88.
- 261.23(b) (ii) A waste material that exhibits the characteristic of reactivity has the EPA Hazardous Waste Number of D003.
- 261.24 (e) TOXICITY CHARACTERISTIC.
- 261.24(a) (i) A waste material (except manufactured gas plant waste) exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, Test Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in Chapter 1, Section 1(g) of these rules and regulations, the extract from a representative sample of the waste contains any of the contaminants listed in table 1 at the concentration equal to or greater than the

respective value given in that table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of Section 3(e) of this Chapter.

261.24(b) (ii) A waste material that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazardous.

Table 1 Maximum Concentration of Contaminants for the Toxicity Characteristic			
EPA HW No.	Contaminant	CAS No. 2	Regulator y Level (mg/L)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D018	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	4 200.0
D024	m-Cresol	108-39-4	4 200.0
D025	p-Cresol	106-44-5	4 200.0
D026	Cresol		4 200.0
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	³ 0.13
D012	Endrin	72-20-8	0.02
D031	Heptachlor (and its epoxide)	76-44-8	0.008
D032	Hexachlorobenzene	118-74-1	³ 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
		1	<u> </u>

D014	Methoxychlor	72-43-5	10.0
D035	Methyl ethyl ketone	78-93-3	200.0
D036	Nitrobenzene	98-95-3	2.0
D037	Pentrachlorophenol	87-86-5	100.0
D038	Pyridine	110-86-1	<sup>3</sup> 5.0
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	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	75-01-4	0.2

FOOTNOTE: 'Hazardous waste number.

FOOTNOTE: <sup>2</sup>Chemical abstracts service number. FOOTNOTE: <sup>3</sup>Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

FOOTNOTE: 4If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

261/Subpart D Section 4. LISTS OF HAZARDOUS WASTES

261.30 (a) GENERAL.

A waste material is a hazardous waste if it is 261.30(a) listed in this Section, unless it has been excluded from this list by the Director under Chapter 1, Sections 3(a) and 3(c) of these rules
and regulations and noted in Appendix I of this Chapter.

 $\,$  (ii) The Director will indicate his or her basis for listing the classes or types of wastes listed in this Section by 261.30(b) employing one or more of the following Hazard Codes:

Ignitable Waste	(I)
Corrosive Waste	(C)
Reactive Waste	(R)
Toxicity Characteristic Waste	(E)
Acute Hazardous Waste	(H)
Toxic Waste	(T)

Appendix G of this Chapter identifies the constituent which caused the EPA Administrator to list the waste as a Toxicity Characteristic Waste (E) or Toxic Waste (T) in Sections 4(b) and 4(c) of this Chapter.

- 261.30(c) (iii) Each hazardous waste listed in this Section is assigned an EPA Hazardous Waste Number which precedes the name of the waste. This number must be used in complying with the notification requirements of Chapter 1, Section 1(h) of these rules and regulations and certain recordkeeping and reporting requirements under Chapter 1, Sections 1(h)-1(j); Chapter 3, Section 2; Chapter 4; Chapter 5; Chapter 6, Section 2; Chapter 7; Chapters 8 through 11; and Chapter 13 of these rules and regulations.
- 261.30(d) (iv) The following hazardous wastes listed in Section 4(b) or 4(c) of this Chapter are subject to the exclusion limits for acutely hazardous wastes established in Section 1(e) of this Chapter: EPA Hazardous Wastes Nos. F020, F021, F022, F023, F026, and F027.
- 261.31 (b) HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES.
- 261.31(a) (i) The following waste materials are listed hazardous wastes from non-specific sources unless they are excluded **by the**Director under Chapter 1, Sections 3(a) and 3(c) of these rules and regulations and listed in Appendix I of this Chapter.

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
Generic:		
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 containing, before use, a total of ten percent or more (by volume) of one 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-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or 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, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one 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 and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these 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	(I,T)

Industry and EPA hazardous	Hazardous waste	Hazard code
waste No.	solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	
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.	<b>(</b> 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)
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 one to and including five, with	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
	varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in Section $4(b)$ or $4(c)$ of this Chapter.).	
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 one to and including five, 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 or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.).	(H)
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.	(T)
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 Section 4(e) of this Chapter 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	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
	treatment units as defined in Section $4(b)(ii)(B)$ of this Chapter (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under Section $1(d)(i)(L)(I)$ of this Chapter, if those residuals are to be disposed of.	
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 DAF units. Sludges 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 and floats generated in aggressive biological treatment units as defined in Section 4(b)(ii)(B) of this Chapter(including sludges and floats generated in one 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.	(T)
F039	Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under Section 4 of this Chapter. (Leachate resulting from the disposal of one 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)

FOOTNOTE: \*(I,T) should be used to specify mixtures containing ignitable and toxic constituents.

261.31(b) (ii) Listing specific definitions:

261.31(b)(1) (A) For the purposes of the F037 and F038 listings, oil/water/solids is defined as oil and/or water and/or solids.

261.31(b)(2)(i) (B) For the purposes of the F037 and F038 listings:

261.31(b)(2)(i)

(I) Aggressive biological treatment units are defined as units which employ one of the following four 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, enhance biological activity, and

- ...(i)(A) (1.) The units employ a minimum of 6 hp per million gallons of treatment volume; and either
- $\dots$  (i)(B) (2.) The hydraulic retention time of the unit is no longer than 5 days; or
- ...(i)(C)  $\qquad \qquad (3.) \ \, \text{The hydraulic retention time is} \\ \text{no longer than 30 days and the unit does not generate a sludge that} \\ \text{is a hazardous waste by the toxicity characteristic.}$

- ...(ii) (II) Generators and treatment, storage and disposal facilities have the burden of proving that their sludges are exempt from listing as F037 and F038 wastes under this definition. Generators and treatment, storage and disposal facilities must maintain, in their operating or other onsite records, documents and data sufficient to prove that:
- $\dots$  (ii)(A) (1.) The unit is an aggressive biological treatment unit as defined in Section 4(b)(ii) of this Chapter; and
- ...(iii)(B) (2.) The sludges sought to be exempted from the definitions of F037 and/or F038 were actually treated in the aggressive biological treatment unit.
- 261.31(b)(3)(i) (C) For the purposes of the F037 listing,
- 261.31(b)(3)(i) (I) Sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement.
- ...(ii) (II) For the purposes of the F038 listing,
- ...(ii)(A) (1.) Sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement and
- $\dots$  (ii)(B) (2.) Floats are considered to be generated at the moment they are formed in the top of the unit.
- 261.32 (c) HAZARDOUS WASTES FROM SPECIFIC SOURCES.

The following waste materials are listed hazardous wastes from specific sources unless they are excluded **by the Director** under Chapter 1, Sections 3(a) and 3(c) of these rules and regulations and listed in Appendix I.

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
Wood preserva- tion:		
K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
Inorganic pigments:		
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.	(T)
K003	Wastewater treatment sludge from the production of molybdate orange pigments.	(T)
K004	Wastewater treatment sludge from the production of zinc yellow pigments.	(T)
К005	Wastewater treatment sludge from the production of chrome green pigments.	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).	(T)
K007	Wastewater treatment sludge from the production of iron blue pigments.	(T)
K008	Oven residue from the production of chrome oxide green pigments.	(T)
Organic chemicals:		
K009	Distillation bottoms from the production of acetaldehyde from ethylene.	(T)
K010	Distillation side cuts from the production of acetaldehyde from ethylene.	(T)
К011	Bottom stream from the wastewater stripper in the production of acrylonitrile.	(R, T)
К013	Bottom stream from the acetonitrile column in the production of acrylonitrile.	(R, T)
К014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.	(T)
K015	Still bottoms from the distillation of benzyl chloride.	(T)
K016	Heavy ends or distillation residues from the production of carbon tetrachloride.	(T)
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.	(T)
К018	Heavy ends from the fractionation column in ethyl chloride production.	(T)
К019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	(T)
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.	(T)
K021	Aqueous spent antimony catalyst waste from fluoromethanes production.	(T)
K022	Distillation bottom tars from the production of phenol/acetone from cumene.	(T)
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.	(T)
К024	Distillation bottoms from the production of phthalic anhydride from naphthalene.	(T)
K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.	(T)
K026	Stripping still tails from the production of methy ethyl pyridines.	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
K027	Centrifuge and distillation residues from toluene diisocyanate production.	(R, T)
К028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.	(T)
К029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane.	(T)
К030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.	(T)
К083	Distillation bottoms from aniline production.	(T)
К085	Distillation or fractionation column bottoms from the production of chlorobenzenes.	(T)
К093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.	(T)
К094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.	(T)
К095	Distillation bottoms from the production of 1,1,1-trichloroethane.	(T)
К096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.	(T)
K103	Process residues from aniline extraction from the production of aniline.	(T)
K104	Combined wastewater streams generated from nitrobenzene/aniline production.	(T)
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	(T)
K107	Column bottoms from product separation from the production of 1,1-dimethyl-hydrazine (UDMH) from carboxylic acid hydrazines.	(C,T)
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(I,T)
к109	Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(T)
К110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(T)
К111	Product washwaters from the production of dinitrotoluene via nitration of toluene.	(C,T)
K112	Reaction by-product water from the drying column in the production of toluenediamine via	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
	hydrogenation of dinitrotoluene.	
к113	Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K114	Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
к115	Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
К116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.	(T)
K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.	(T)
K118	Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	(T)
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	(T)
к149	Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups, (This waste does not include still bottoms from the distillation of benzyl chloride.).	(T)
K150	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, benzoyl chlorides, and compounds with mixtures of these functional groups.	(T)
к151	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, benzoyl chlorides, and compounds with mixtures of these functional groups.	(T)
K156	Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
waste No.	listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	
к157	Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	(T)
К158	Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	(T)
К159	Organics from the treatment of thiocarbamate wastes	(T)
K161	Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126.).	(R, T)
K174	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer (including sludges that result from commingled ethylene dichloride or vinyl chloride monomer waste-water and other wastewater), unless the sludges meet the following conditions: (i) they are disposed of in a hazardous waste or non-hazardous landfill licensed or permitted by the state or federal government; (ii) they are not otherwise placed on the land prior to final disposal; and (iii) the generator maintains documentation demonstrating that the waste was either disposed of in an on-site landfill or consigned to a transporter or disposal facility that provided a written commitment to dispose of the waste in an off-site landfill. Respondents in any action brought to enforce the requirements of sub-title C must, upon a showing by the government that the respondent managed wastewater treatment sludges from the production of vinyl chloride monomer or ethylene dichloride, demonstrate that they meet the terms of the exclusion set forth above. In doing so, they must provide appropriate documentation (e.g., contracts between the generator and the landfill owner/operator, invoices documenting delivery of waste to landfill, etc.) that the terms of the exclusion were met.	(T)
K175	Wastewater treatment sludges from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylenebased process.	(T)
		<u> </u>

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
Inorganic chemicals:		
K071	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.	(T)
К073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	(T)
К106	Wastewater treatment sludge from the mercury cell process in chlorine production.	(T)
Pesticides:		
К031	By-product salts generated in the production of MSMA and cacodylic acid.	(T)
К032	Wastewater treatment sludge from the production of chlordane.	(T)
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	(T)
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	(T)
К035	Wastewater treatment sludges generated in the production of creosote.	(T)
К036	Still bottoms from toluene reclamation distillation in the production of disulfoton.	(T)
К037	Wastewater treatment sludges from the production of disulfoton.	(T)
к038	Wastewater from the washing and stripping of phorate production.	(T)
К039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.	(T)
КО40	Wastewater treatment sludge from the production of phorate.	(T)
K041	Wastewater treatment sludge from the production of toxaphene.	(T)
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	(T)
КО43	2,6-Dichlorophenol waste from the production of 2,4-D.	(T)
к097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.	(T)
К098	Untreated process wastewater from the production of toxaphene.	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
К099	Untreated wastewater from the production of 2,4-D.	(T)
K123	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salt.	(T)
K124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	(C, T)
к125	Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.	(T)
к126	Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.	(T)
к131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.	(C,T)
К132	Spent absorbent and wastewater separator solids from the production of methyl bromide.	(T)
Explosives:		
K044	Wastewater treatment sludges from the manufacturing and processing of explosives.	(R)
K045	Spent carbon from the treatment of wastewater containing explosives.	(R)
K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.	(T)
K047	Pink/red water from TNT operations.	(R)
Petroleum refining:		
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.	(T)
K049	Slop oil emulsion solids from the petroleum refining industry.	(T)
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.	(T)
К051	API separator sludge from the petroleum refining industry.	(T)
К052	Tank bottoms (leaded) from the petroleum refining industry.	(T)
K169	Crude oil storage tank sediment from refining operations	(T)
K170	Clarified slurry oil tank sediment and/or in-line filter/separation solids from	(T)

Industry and	Hazardous waste	Hazard
EPA hazardous waste No.		code
	petroleum refining operations.	
к171	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).	(I,T)
к172	Spent hydrorefining catalyst from refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).	(T)
Iron and steel:		
K061	Emission control dust/sludge from the primary production of steel in electric furnaces.	(T)
к062	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).	(C,T)
Primary copper:		
Primary lead:		
Primary zinc:		
Primary aluminum:		
K088	Spent potliners from primary aluminum reduction.	(T)
Ferro-alloys:		
Secondary lead:		
к069	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 effecting this stay, EPA will publish a notice of the action in the Federal Register).	(T)
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	(T)
Veterinary pharmaceu- ticals:		
K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
K101	Distillation tar residues from the distillation of aniline-based compounds in the	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
	production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	
к102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
Ink formulation:		
к086	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.	(T)
Coking:		
K060	Ammonia still lime sludge from coking operations.	(T)
K087	Decanter tank tar sludge from coking operations.	(T)
к141	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 by-products produced from coal. This listing does not include K087 (decanter tank tar sludges from coking operations).	(T)
K142	Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.	(T)
К143	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 byproducts produced from coal.	(T)
К144	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.	(T)
K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.	(T)
K147	Tar storage tank residues from coal tar refining.	(T)
K148	Residues from coal tar distillation, including but not limited to still bottoms.	(T)

<sup>(</sup>d) DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUES, AND SPILL RESIDUES THEREOF. The

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following materials or items are hazardous wastes if and when they are discarded or intended to be discarded as described in Chapter 1, Section 1(f)(i) of these rules and regulations, when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment, when they are otherwise applied to the land in lieu of their original intended use or when they are contained in products that are applied to the land in lieu of their original intended use, or when, in lieu of their original intended use, they are produced for use as (or as a component of) a fuel, distributed for use as a fuel, or burned as a fuel.

- 261.33(a) (i) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in Section 4(d)(v) or 4(d)(vi) of this Chapter.
- 261.33(b) (ii) Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in Section 4(d)(v) or 4(d)(vi) of this Chapter.
- 261.33(c) (iii) Any residue remaining in a container or in an inner liner removed from a container that has held any commercial chemical product or manufacturing chemical intermediate having the generic name listed in Section 4(d)(v) or 4(d)(vi) of this Chapter , unless the container is empty as defined in Section 1(g)(ii) of this Chapter.

[Comment: Unless the residue is being beneficially used or reused, or legitimately recycled or reclaimed; or being accumulated, stored, transported or treated prior to such use, re-use, recycling or reclamation, the State considers the residue to be intended for discard, and thus, a hazardous waste. An example of the legitimate re-use of the residue would be where the residue remains in the container and the container is used to hold the same commercial chemical product or manufacturing chemical intermediate it previously held. An example of the discard of the residue would be where the drum is sent to a drum reconditioner who reconditions the drum but discards the residue.]

261.33(d) (iv) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having the generic name listed in Section 4(d)(v) or 4(d)(vi) of this Chapter, or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any off-specification chemical product and manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in Section 4(d)(v) or 4(d)(vi) of this Chapter.

[Comment: The phrase "commercial chemical product or manufacturing chemical intermediate having the generic name listed in . . . " refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient. It does not refer to a material, such as a manufacturing process waste, that contains any of the substances listed in Section 4(d)(v) or (vi) of this Chapter. Where a manufacturing process waste is deemed to be a hazardous waste because it contains a substance listed in Section 4(d)(v) or (vi) of this Chapter, such waste will be listed in either Section 4(b) or 4(c) of this Chapter or will be identified as a hazardous waste by the characteristics set forth in Section 3 of this Chapter.]

261.33(e) (v) The commercial chemical products, manufacturing chemical intermediates or off-specification commercial chemical products or manufacturing chemical intermediates referred to in Sections 4(d)(i) through 4(d)(iv) of this Chapter, are identified as acute hazardous wastes (H) and are subject to be the small quantity exclusion defined in Section 1(e)(v) of this Chapter).

[Comment: For the convenience of the regulated community the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), and R (Reactivity). Absence of a letter indicates that the compound only is listed for acute toxicity.]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

Hazard- ous waste No.	Chemical abstracts No.	Substance
P023	107-20-0	Acetaldehyde, chloro-
P002	591-08-2	Acetamide, B(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	116-06-3	Aldicarb
P203	1646-88-4	Aldicarb sulfone
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,AsO,
P012	1327-53-3	Arsenic oxide As,O,
P011	1303-28-2	Arsenic oxide As,O,
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-

Hazard- ous waste No.	Chemical abstracts No.	Substance
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
P127	1563-66-2	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.
P188	57-64-7	Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1).
P001	181-81-2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & 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)-, 0- [methylamino)carbonyl] oxime
P021	592-01-8	Calcium cyanide
P021	592-01-8	Calcium cyanide Ca(CN),
P022	75-15-0	Carbon disulfide
P189	55285-14-8	Carbamic acid, [(dibutylamino)-thio]methyl-, 2,3-dihydro-2,2-dimethyl- 7-benzofuranyl ester
P191	644-64-4	Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]- 5-methyl-1H-pyrazol-3-yl ester.
P192	119-38-0	Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H-pyrazol-5-yl ester.
P190	1129-41-5	Carbamic acid, methyl-,3-methylphenyl ester.
P127	1563-66-2	Carbofuran.
P095	75-44-5	Carbonic dichloride
P189	55285-14-8	Carbosulfan.
P023	107-20-0	Chloroacetaldehyde
P024	106-47-8	p-Chloroaniline
P026	5344-82-1	1-(o-Chlorophenyl)thiourea
P027	542-76-7	3-Chloropropionitrile
P029	544-92-3	Copper cyanide
P029	544-92-3	Copper cyanide Cu(CN)

Hazard- ous waste No.	Chemical abstracts No.	Substance
P202	64-00-6	m-Cumenyl methylcarbamate
P030		Cyanides (soluble cyanide salts), not otherwise specified
P031	460-19-5	Cyanogen
P033	506-77-4	Cyanogen chloride
P033	506-77-4	Cyanogen chloride (CN)Cl
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	0,0-Diethyl 0-pyrazinyl phosphorothioate
P043	55-91-4	Diisopropylfluorophosphate (DFP)
P004	309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-
P060	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta)-
P037	60-57-1	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-la,2,2a,3,6,6a,7,7a- octahydro-, (laalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta, 7aalpha)-
P051	172-20-8	2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-la,2,2a,3,6,6a,7,7a- octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7 aalpha)-, & metabolites
P044	60-51-5	Dimethoate
P046	122-09-8	alpha,alpha-Dimethylphenethylamine
P191	644-64-4	Dimetilan
P047	1534-52-1	4,6-Dinitro-o-cresol, & salts
P048	51-28-5	2,4-Dinitrophenol
P020	88-85-7	Dinoseb
P085	152-16-9	Diphosphoramide, octamethyl-
P111	107-49-3	Diphosphoric acid, tetraethyl ester
P039	298-04-4	Disulfoton
P049	541-53-7	Dithiobiuret
P185	26419-73-8	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, 0-

Hazard- ous waste No.	Chemical abstracts No.	Substance
		[(methylamino)-carbonyl]oxime.
P050	115-29-7	Endosulfan
P088	145-73-3	Endothall
P051	72-20-8	Endrin
P051	72-20-8	Endrin, & metabolites
P042	51-43-4	Epinephrine
P031	460-19-5	Ethanedinitrile
P194	23135-22-0	Ethanimidothioc acid, 2-(dimethylamino)-N- [[(methylamino)-carbonyl]oxy]-2-oxo-, methyl ester
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
P057	640-19-7	Fluoroacetamide
P058	62-74-8	Fluoroacetic acid, sodium salt
P198	23422-53-9	Formetanate hydrochloride
P197	17702-57-7	Formparanate
P065	628-86-4	Fulminic acid, mercury(2+) salt (R,T)
P059	76-44-8	Heptachlor
P062	757-58-4	Hexaethyl tetraphosphate
P116	79-19-6	Hydrazinecarbothioamide
P068	60-34-4	Hydrazine, methyl-
P063	74-90-8	Hydrocyanic acid
P063	74-90-8	Hydrogen cyanide
P096	7803-51-2	Hydrogen phosphide
P060	465-73-6	Isodrin
P192	119-38-0	Isolan
P202	64-00-6	3-Isopropylphenyl N-methylcarbamate
P007	2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-
P196	15339-36-3	Manganese, bis(dimethylcarbamodithioato-S,S')-,
P196	15339-36-3	Manganese dimethyldithiocarbamate
P092	62-38-4	Mercury, (acetato-0)phenyl-
P065	628-86-4	Mercury fulminate (R,T)
P082	62-75-9	Methanamine, N-methyl-N-nitroso-
P064	624-83-9	Methane, isocyanato-

Hazard- ous waste No.	Chemical abstracts No.	Substance
P016	542-88-1	Methane, oxybis[chloro-
P112	509-14-8	Methane, tetranitro- (R)
P118	75-70-7	Methanethiol, trichloro-
P198	23422-53-9	Methanimidamide, N,N-dimethyl-N'-[3- [[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride.
P197	17702-57-7	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4- [[(methylamino)carbonyl]oxy]phenyl]-
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-
P199	2032-65-7	Methiocarb
P066	16752-77-5	Methomyl
P068	60-34-4	Methyl hydrazine
P064	624-83-9	Methyl isocyanate
P069	75-86-5	2-Methyllactonitrile
P071	298-00-0	Methyl parathion
P190	1129-41-5	Metolcarb
P128	315-18-4	Mexacarbate
P072	86-88-4	alpha-Naphthylthiourea
P073	13463-39-3	Nickel carbonyl
P073	13463-39-3	Nickel carbonyl Ni(CO)4, (T-4)-
P074	557-19-7	Nickel cyanide
P074	557-19-7	Nickel cynaide Ni(CN)2
P075	<sup>1</sup> 54-11-5	Nicotine, & 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
P078	10102-44-0	Nitrogen oxide NO,
P081	55-63-0	Nitroglycerine (R)
P082	62-75-9	N-Nitrosodimethylamine
P084	4549-40-0	N-Nitrosomethylvinylamine
P085	152-16-9	Octamethylpyrophosphoramide
P087	20816-12-0	Osmium oxide OsO <sub>4</sub> , (T-4)-
P087	20816-12-0	Osmium tetroxide

Hazard- ous waste No.	Chemical abstracts No.	Substance
P088	145-73-3	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
P194	23135-22-0	Oxamyl
P089	56-38-2	Parathion
P034	131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-
P128	315-18-4	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester).
P199	2032-65-7	Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate
P048	51-28-5	Phenol, 2,4-dinitro-
P047	1534-52-1	Phenol, 2-methyl-4,6-dinitro-, & salts
P202	64-00-6	Phenol, 3-(1-methylethyl)-, methyl carbamate
P201	2631-37-0	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate.
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, 0,0-diethyl S-[2- (ethylthio)ethyl] ester
P094	298-02-2	Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl] ester
P044	60-51-5	Phosphorodithioic acid, 0,0-dimethyl S-[2- (methylamino)-2-oxoethyl] ester
P043	55-91-4	Phosphorofluoridic acid, bis(1-methylethyl) ester
P089	56-38-2	Phosphorothioic acid, 0,0-diethyl 0-(4-nitrophenyl) ester
P040	297-97-2	Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester
P097	52-85-7	Phosphorothioic acid, O-[4- [(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
P071	298-00-0	Phosphorothioic acid, 0,0,-dimethyl 0-(4-nitrophenyl) ester
P204	57-47-6	Physostigmine.
P188	57-64-7	Physostigmine salicylate.
P110	78-00-2	Plumbane, tetraethyl-

Hazard- ous waste No.	Chemical abstracts No.	Substance
P098	151-50-8	Potassium cyanide K(CN)
P099	506-61-6	Potassium silver cyanide
P201	2631-37-0	Promecarb
P203	1646-88-4	Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime.
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	154-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts
P204	57-47-6	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)
P114	12039-52-0	Selenious acid, dithallium(1+) salt
P103	630-10-4	Selenourea
P104	506-64-9	Silver cyanide
P104	506-64-9	Silver cyanide Ag(CN)
P105	26628-22-8	Sodium azide
P106	143-33-9	Sodium cyanide
P106	143-33-9	Sodium cyanide Na(CN)
P108	<sup>1</sup> 57-24-9	Strychnidin-10-one, & salts
P018	357-57-3	Strychnidin-10-one, 2,3-dimethoxy-
P108	<sup>1</sup> 57-24-9	Strychnine, & salts
P115	7446-18-6	Sulfuric acid, dithallium(1+) salt
P109	3689-24-5	Tetraethyldithiopyrophosphate
P110	78-00-2	Tetraethyl lead
P111	107-49-3	Tetraethyl pyrophosphate
P112	509-14-8	Tetranitromethane (R)

Hazard- ous waste No.	Chemical abstracts No.	Substance
P062	757-58-4	Tetraphosphoric acid, hexaethyl ester
P113	1314-32-5	Thallic oxide
P113	1314-32-5	Thallium oxide Tl,O,
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	Thioimidodicarbonic diamide [(H,N)C(S)],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-
P185	26419-73-8	Tirpate.
P123	8001-35-2	Toxaphene
P118	75-70-7	Trichloromethanethiol
P119	7803-55-6	Vanadic acid, ammonium salt
P120	1314-62-1	Vanadium oxide V2O5
P120	1314-62-1	Vanadium pentoxide
P084	4549-40-0	Vinylamine, N-methyl-N-nitroso-
P001	181-81-2	Warfarin, & salts, when present at concentrations greater than 0.3%
P205	137-30-4	Zinc, bis(dimethylcarbamodithioato-S,S')-,
P121	557-21-1	Zinc cyanide
P121	557-21-1	Zinc cyanide Zn(CN)2
P122	1314-84-7	Zinc phosphide $Zn_3P_2$ , when present at concentrations greater than 10% (R,T)
P205	137-30-4	Ziram.

FOOTNOTE: 1 CAS Number given for parent compound only.

261.33(f) (vi) The commercial chemical products, manufacturing chemical intermediates, or off-specification commercial chemical products referred to in Sections 4(d)(i) through 4(d)(iv) of this Chapter, are identified as toxic wastes (T), unless otherwise designated and are subject to the small quantity generator exclusion defined in Sections 1(e)(i) and (vii) of this Chapter.

[Comment: For the convenience of the regulated community, the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), R (Reactivity), I (Ignitability) and C (Corrosivity). Absence of a letter indicates that the compound is

## only listed for toxicity.]

These wastes and their corresponding  ${\tt EPA}$  Hazardous Waste Numbers are:

	1	
Hazardous waste No.	Chemical abstracts No.	Substance
U394	30558-43-1	A2213
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	<sup>1</sup> 94-75-7	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters
U112	141-78-6	Acetic acid ethyl ester (I)
U144	301-04-2	Acetic acid, lead(2+) salt
U214	563-68-8	Acetic acid, thallium(1+) salt
see F027	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-
U002	67-64-1	Acetone (I)
U003	75-05-8	Acetonitrile (I,T)
U004	98-86-2	Acetophenone
U005	53-96-3	2-Acetylaminofluorene
<b>U</b> 006	75-36-5	Acetyl chloride (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-[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]-
U280	101-27-9	Barban.
U278	22781-23-3	Bendiocarb.
U364	22961-82-6	Bendiocarb phenol.
U271	17804-35-2	Benomyl
U157	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-

Hazardous waste No.	Chemical abstracts No.	Substance
U016	225-51-4	Benz[c]acridine
U017	98-87-3	Benzal chloride
U192	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-
U018	56-55-3	Benz[a]anthracene
U094	57-97-6	Benz[a]anthracene, 7,12-dimethyl-
U012	62-53-3	Benzenamine (I,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-, ethyl ester
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-
U028	117-81-7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
U069	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester
U088	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester
U102	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester
U107	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester
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)-

Hazardous waste No.	Chemical abstracts No.	Substance
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 U106	121-14-2 606-20-2	Benzene, 1-methyl-2,4-dinitro- 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	Benzenesulfonic acid chloride (C,R)
U020	98-09-9	Benzenesulfonyl 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	181-07-2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts
U278	22781-23-3	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate.
U364	22961-82-6	1,3-Benzodioxol-4-ol, 2,2-dimethyl-,
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-
U367	1563-38-8	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-
U064	189-55-9	Benzo[rst]pentaphene
U248	181-81-2	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

Hazardous waste No.	Chemical abstracts No.	Substance
U023	98-07-7	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
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-yl ester, [1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-
U031	71-36-3	n-Butyl alcohol (I)
U136	75-60-5	Cacodylic acid
U032	13765-19-0	Calcium chromate
U372	10605-21-7	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester.
U271	17804-35-2	Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester.
U280	101-27-9	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester.
U238	51-79-6	Carbamic acid, ethyl ester
U178	615-53-2	Carbamic acid, methylnitroso-, ethyl ester
บ373	122-42-9	Carbamic acid, phenyl-, 1-methylethyl ester.
U409	23564-05-8	Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester.
U097	79-44-7	Carbamic chloride, dimethyl-
U114	1111-54-6	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters
U062	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester

Hazardous waste No.	Chemical abstracts No.	Substance
U389	2303-17-5	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester.
บ387	52888-80-9	Carbamothioic acid, dipropyl-, S- (phenylmethyl) ester.
U279	63-25-2	Carbaryl.
U372	10605-21-7	Carbendazim.
U367	1563-38-8	Carbofuran phenol.
U215	6533-73-9	Carbonic acid, dithallium(1+) salt
U033	353-50-4	Carbonic difluoride
U156	79-22-1	Carbonochloridic acid, methyl ester (I,T)
U033	353-50-4	Carbon oxyfluoride (R,T)
U211	56-23-5	Carbon tetrachloride
U034	75-87-6	Chloral
U035	305-03-3	Chlorambucil
U036	57-74-9	Chlordane, alpha & 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,CrO4, calcium salt
U050	218-01-9	Chrysene
U051		Creosote
U052	1319-77-3	Cresol (Cresylic acid)
U053	4170-30-3	Crotonaldehyde
U055	98-82-8	Cumene (I)
U246	506-68-3	Cyanogen bromide (CN)Br
U197	106-51-4	2,5-Cyclohexadiene-1,4-dione
U056	110-82-7	Cyclohexane (I)

Hazardous waste No.	Chemical abstracts No.	Substance
U129	58-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)-
<b>U</b> 057	108-94-1	Cyclohexanone (I)
U130	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-
U058	50-18-0	Cyclophosphamide
U240	194-75-7	2,4-D, salts & 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	Dibutyl phthalate
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	Dichloromethoxy ethane
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)
U395	5952-26-1	Diethylene glycol, dicarbamate.
U108	123-91-1	1,4-Diethyleneoxide
U028	117-81-7	Diethylhexyl phthalate
U086	1615-80-1	N,N'-Diethylhydrazine
U087	3288-58-2	O,O-Diethyl S-methyl dithiophosphate

Hazardous waste No.	Chemical abstracts No.	Substance
U088	84-66-2	Diethyl phthalate
U089	56-53-1	Diethylstilbesterol
U090	94-58-6	Dihydrosafrole
U091	119-90-4	3,3'-Dimethoxybenzidine
U092	124-40-3	Dimethylamine (I)
U093	60-11-7	p-Dimethylaminoazobenzene
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	Dimethylcarbamoyl chloride
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
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-octyl phthalate
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 U001	106-89-8 75-07-0	Epichlorohydrin Ethanal (I)
U404	121-44-8	Ethanamine, N,N-diethyl-
U174	55-18-5	Ethanamine, N-ethyl-N-nitroso-
U155	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-
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-

Hazardous waste No.	Chemical abstracts No.	Substance
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-
U410	59669-26-0	Ethanimidothioic acid, N,N'- [thiobis[methylimino)carbonyloxy]]bis-, dimethyl ester
U394	30558-43-1	Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester.
U359	110-80-5	Ethanol, 2-ethoxy-
U173	1116-54-7	Ethanol, 2,2'-(nitrosoimino)bis-
U395	5952-26-1	Ethanol, 2,2'-oxybis-, dicarbamate.
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 U210	156-60-5 127-18-4	Ethene, 1,2-dichloro-, (E)- Ethene, tetrachloro-
U228	79-01-6	Ethene, trichloro-
U112	141-78-6	Ethyl acetate (I)
U113	140-88-5	Ethyl acrylate (I)
U238	51-79-6	Ethyl carbamate (urethane)
U117	60-29-7	Ethyl ether (I)
U114	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	Ethylenethiourea
U076	75-34-3	Ethylidene dichloride
U118	97-63-2	Ethyl methacrylate

Hazardous waste No.	Chemical abstracts No.	Substance
U119	62-50-0	Ethyl methanesulfonate
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	Hydrofluoric acid (C,T)
U134	7664-39-3	Hydrogen fluoride (C,T)
U135	7783-06-4	Hydrogen sulfide
U135	7783-06-4	Hydrogen sulfide H <sub>2</sub> S
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

Hazardous waste No.	Chemical abstracts No.	Substance
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-0)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	Maleic anhydride
U148	123-33-1	Maleic hydrazide
U149	109-77-3	Malononitrile
U150	148-82-3	Melphalan
U151	7439-97-6	Mercury
U152	126-98-7	Methacrylonitrile (I, T)
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	Methanesulfonic 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

Hazardous waste No.	Chemical abstracts No.	Substance	
U142	143-50-0	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,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-Methylbutadiene (I)	
U045	74-87-3	Methyl chloride (I,T)	
U156	79-22-1	Methyl chlorocarbonate (I,T)	
U226	71-55-6	Methyl chloroform	
U157 U158	56-49-5 101-14-4	3-Methylcholanthrene 4,4'-Methylenebis(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	Methyl iodide	
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	Methylthiouracil	
U010	50-07-7	Mitomycin C	
U059	20830-81-3	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (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-	
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	
U279	63-25-2	1-Naphthalenol, methylcarbamate.	
U166	130-15-4	1,4-Naphthoquinone	

Hazardous waste No.	Chemical abstracts No.	Substance	
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 U172	79-46-9 924-16-3	2-Nitropropane (I,T) 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	Oxiranecarboxyaldehyde	
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 F027	87-86-5	Pentachlorophenol	
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-	

Hazardous waste No.	Chemical abstracts No.	Substance	
		, (E)-	
U101 U052	105-67-9 1319-77-3	Phenol, 2,4-dimethyl- Phenol, methyl-	
U132	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	
U411	114-26-1	Phenol, 2-(1-methylethoxy)-, methylcarbamate.	
U170	100-02-7	Phenol, 4-nitro-	
See F027	87-86-5	Phenol, pentachloro-	
See F027	58-90-2	Phenol, 2,3,4,6-tetrachloro-	
See F027	95-95-4	Phenol, 2,4,5-trichloro-	
See F027	88-06-2	Phenol, 2,4,6-trichloro-	
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-methyl ester	
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	Propanedinitrile	
U171	79-46-9	Propane, 2-nitro- (I,T)	
U027	108-60-1	Propane, 2,2'-oxybis[2-chloro-	
U193	1120-71-4	1,3-Propane sultone	
See F027	93-72-1	Propanoic acid, 2-(2,4,5-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-	

Hazardous waste No.	Chemical abstracts No.	Substance			
U243	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-			
U009	107-13-1	2-Propenenitrile			
U152	126-98-7	2-Propenenitrile, 2-methyl- (I,T)			
U008	79-10-7	2-Propenoic acid (I)			
U113	140-88-5	2-Propenoic acid, ethyl ester (I)			
U118	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester			
U162	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester (I,T)			
บ373	122-42-9	Propham.			
U411	114-26-1	Propoxur.			
U194	107-10-8	n-Propylamine (I,T)			
U083	78-87-5	Propylene dichloride			
U387	52888-80-9	Prosulfocarb.			
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	181-07-2	Saccharin, & salts			
U203	94-59-7	Safrole			
U204	7783-00-8	Selenious acid			
U204	7783-00-8	Selenium dioxide			
U205	7488-56-4	Selenium sulfide			
U205	7488-56-4	Selenium sulfide SeS, (R,T)			
U015	115-02-6	L-Serine, diazoacetate (ester)			
See F027	93-72-1	Silvex (2,4,5-TP)			
U206	18883-66-4	Streptozotocin			
U103	77-78-1	Sulfuric acid, dimethyl ester			
U189	1314-80-3	Sulfur phosphide (R)			
See F027	93-76-5	2,4,5-T			

Hazardous waste No.	Chemical abstracts No.	Substance	
U207	95-94-3	1,2,4,5-Tetrachlorobenzene	
U208	630-20-6	1,1,1,2-Tetrachloroethane	
U209	79-34-5	1,1,2,2-Tetrachloroethane	
U210	127-18-4	Tetrachloroethylene	
See F027	58-90-2	2,3,4,6-Tetrachlorophenol	
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	
U410	59669-26-0	Thiodicarb.	
U153	74-93-1	Thiomethanol (I,T)	
U244	137-26-8	Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-	
U409	23564-05-8	Thiophanate-methyl.	
U219	62-56-6	Thiourea	
U244	137-26-8	Thiram	
U220	108-88-3	Toluene	
U221	25376-45-8	Toluenediamine	
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	
U389	2303-17-5	Triallate.	
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 F027	95-95-4	2,4,5-Trichlorophenol	
See F027	88-06-2	2,4,6-Trichlorophenol	
U404	121-44-8	Triethylamine.	
U234	99-35-4	1,3,5-Trinitrobenzene (R,T)	

Hazardous waste No.	Chemical abstracts No.	Substance	
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	181-81-2	Warfarin, & salts, when present at concentrations of 0.3% or less	
U239	1330-20-7	Xylene (I)	
U200	50-55-5	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3beta,16beta,17alpha,18beta,20alpha)-	
U249	1314-84-7	Zinc phosphide Zn3P2, when present at concentrations of 10% or less	

FOOTNOTE: 1 CAS Number given for parent compound only.

- 261.35 (e) DELETION OF CERTAIN HAZARDOUS WASTE CODES FOLLOWING EQUIPMENT CLEANING AND REPLACEMENT.
- 261.35(a) (i) Wastes from wood preserving processes at plants that do not resume or initiate use of chlorophenolic preservatives will not meet the listing definition of F032 once the generator has met all of the requirements of Sections 4(e)(ii) and 4(e)(iii) of this Chapter. These wastes may, however, continue to meet another hazardous waste listing description or may exhibit one or more of the hazardous waste characteristics.
- 261.35(b) (ii) Generators must either clean or replace all process equipment that may have come into contact with chlorophenolic formulations or constituents thereof, including, but not limited to, treatment cylinders, sumps, tanks, piping systems, drip pads, fork lifts, and trams, in a manner that minimizes or eliminates the escape of hazardous waste or constituents, leachate, contaminated drippage, or hazardous waste decomposition products to the ground water, surface water, or atmosphere.

261.35(b)(1) (A) Generators shall do one of the following:

- $\dots$  (I) Prepare and follow an equipment cleaning plan and clean equipment in accordance with Section 4(e) of this Chapter;
- ...(ii) (II) Prepare and follow an equipment replacement plan and replace equipment in accordance with Section 4(e) of this Chapter; or
- ...(iii) (III) Document cleaning and replacement in accordance with Section 4(e) of this Chapter, carried out after termination of use of chlorophenolic preservations.

261.35(b)	35(b)(2) (B) Cleaning Requirements.				
(i)	cleaning plan that descri	I) P: bes:	Prepare and sign a written equipment		
(i)(A)		( )	(1.) The equipment to be cleaned;		
(i)(B)	cleaned;	( )	(2.) How the equipment will be		
(i)(C)	cleaning;	( )	(3.) The solvent to be used in		
(i)(D)	tested; and	( -	(4.) How solvent rinses will be		
(i)(E)	disposed.	(	(5.) How cleaning residues will be		
(ii)	()	II) E	Equipment must be cleaned as follows:		
(ii)(A)	process equipment;	( )	(1.) Remove all visible residues from		
(ii)(B)	appropriate solvent until in the final solvent rinse	dioxi	(2.) Rinse process equipment with an ins and dibenzofurans are not detected		
(iii)	(:	III) A	Analytical Requirements.		
(iii)(A)	accordance with SW-846, Mo		(1.) Rinses must be tested in 8290.		
(iii)(B)	the lower method calibrat		(2.) "Not detected" means at or below imit (MCL) in Method 8290, Table 1.		
(iv)	from the cleaning process		The generator must manage all residues 032 waste.		
261.35(b)	(C) Re	.eplaceı	ement Requirements.		
(i)	replacement plan that description		Prepare and sign a written equipment s:		
(i)(A)		( )	(1.) The equipment to be replaced;		
(i)(B)	replaced; and	( )	(2.) How the equipment will be		
(i)(C)	disposed.	(	(3.) How the equipment will be		
(ii)	equipment as F032 waste.	II) T	The generator must manage the discarded		
261.35(b)	(4) (D) De	ocumen	ntation Requirements.		
(I)	cleaning and/or replacement	nt was	Document that previous equipment section red after cessation of use of		
261.35(c)	(iii) The generator must maintain the following records documenting the cleaning and replacement as part of the facility'S operating record:				

- 261.35(c)(1) (A) The name and address of the facility;
- 261.35(c)(2) (B) Formulations previously used and the date on which their use ceased in each process at the plant;
- 261.35(c)(3) (C) Formulations currently used in each process at the plant;
- 261.35(c)(4) (D) The equipment cleaning or replacement plan;
- 261.35(c)(5) (E) The name and address of any persons who conducted the cleaning and replacement;
- 261.35(c)(6) (F) The dates on which cleaning and replacement were accomplished;
- 261.35(c)(7) (G) The dates of sampling and testing;
- 261.35(c)(8) (H) A description of the sample handling and preparation techniques, including techniques used for extraction, containerization, preservation, and chain-of-custody of the samples;
- 261.35(c)(9) (I) A description of the tests performed, the date the tests were performed, and the results of the tests;
- 261.35(c)(10) (J) The name and model numbers of the instrument(s) used in performing the tests;
- 261.35(c)(11) (K) QA/QC documentation; and
- 261.35(c)(12) (L) The following statement signed by the generator or his or her authorized representative:

I certify under penalty of law that all process equipment required to be cleaned or replaced under Chapter 2, Section (4)(e) of the Wyoming Hazardous Waste Rules and Regulations was cleaned or replaced as represented in the equipment cleaning and replacement plan and accompanying documentation. I am aware that there are significant penalties for providing false information, including the possibility of fine or imprisonment.

- 261.36 (f) RESERVED.
- 261.37 (g) RESERVED.
- 261.38 (h) COMPARABLE/SYNGAS FUEL EXCLUSION. Wastes that meet the following comparable/syngas fuel requirements are not waste materials:
- 261.38(a) (i) Comparable fuel specifications.
- 261.38(a)(1) (A) Physical specifications.
- ...(i) (I) Heating value. The heating value must exceed 5,000 BTU/lbs. (11,500  $\rm J/g$ ).
- 261.38(a)(2)

  (B) Constituent specifications. For compounds listed in table 1 of Section 4(h) of this Chapter the specification levels and, where non-detect is the specification, minimum required detection limits are: (see table 1 to Section 4(h) of this Chapter).

- 261.38(b) (ii) Synthesis gas fuel specification. Synthesis gas fuel (i.e., syngas fuel) that is generated from hazardous waste must:
- 261.38(b)(1) (A) Have a minimum Btu value of 100 Btu/Scf;
- 261.38(b)(2) (B) Contain less than 1 ppmv of total halogen;
- 261.38(b)(3) (C) Contain less than 300 ppmv of total nitrogen other than diatomic nitrogen (N2);
- 261.38(b)(4) (D) Contain less than 200 ppmv of hydrogen sulfide; and
- 261.38(b)(5) (E) Contain less than 1 ppmv of each hazardous constituent in the target list of Appendix H constituents of this Chapter.

TABLE 1 TO Chapter 2, Section 4(h): DETECTION AND DETECTION LIMIT VALUES FOR COMPARABLE FUEL SPECIFICATION

VALUES FOR COMPARABLE FUEL SPE	CIPICATION		
Chemical Name  Total Nitrogen as N	CAS No.	Concen- tration limit (mg/kg at 10,000 BTU/lb)	Minimum required detection limit (mg/kg)
Total Halogens as Cl	NA	540	
Total Organic Halogens as Cl	NA	(1)	
Polychlorinated biphenyls, total [Arocolors, total] a	1336-36-3	ND	1.4
Cyanide, total	57-12-5	ND	1.0
Metals:	•	•	•
Antimony, total	7440-36-0	12	
Arsenic, total	7440-38-2	0.23	
Barium, total	7440-39-3	23	
Beryllium, total	7440-41-7	1.2	
Cadmium, total	7440-41-7		1.2
Chromium, total	7440-43-3	2.3	
Cobalt.	7440-47-3	4.6	
Lead, total	7439-92-1	31	
Manganese	7439-96-5	1.2	
Mercury, total	7439-97-6	0.25	
Nickel, total	7440-02-0	58	
Selenium, total	7782-49-2	0.23	
Silver, total	7440-22-4	2.3	
Thallium, total	7440-28-0	23	
Hydrocarbons:			
Benzo[a]anthracene	56-55-3	2400	
Benzene	71-43-2	4100	
Benzo[b]fluoranthene	205-99-2	2400	
Benzo[k]fluoranthene	207-08-9	2400	
Benzo[a]pyrene	50-32-8	2400	
Chrysene	218-01-9	2400	
Dibenzo[a,h]anthracene	53-70-3	2400	
7,12-Dimethylbenz[a]anthracene	57-97-6	2400	
Fluoranthene	206-44-0	2400	
Indeno(1,2,3-cd)pyrene	193-39-5	2400	
3-Methylcholanthrene	56-49-5	2400	
Naphthalene	91-20-3	3200	
Toluene	108-88-3	36000	
Oxygenates:	100-00-3	30000	
Acetophenone	98-86-2	2400	
Acrolein	107-02-8	39	
Allyl alcohol	107-18-6	30	
Bis(2-ethylhexyl)phthalate [Di-2-ethylhexyl phthalate]	117-81-7	2400	
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Butyl benzyl phthalate	85-68-7	2400	
o-Cresol [2-Methyl phenol]	95-48-7	2400	
m-Cresol [3-Methyl phenol]	108-39-4	2400	
p-Cresol [4-Methyl phenol]	106-44-5	2400	
Di-n-butyl phthalate	84-74-2	2400	
Diethyl phthalate	84-66-2	2400	
2,4-Dimethylphenol	105-67-9	2400	
Dimethyl phthalate	131-11-3	2400	
Di-n-octyl phthalate	117-84-0	2400	
Endothall	145-73-3	100	
Ethyl methacrylate	97-63-2	39	

	_		
Chemical Name	CAS No.	Concen- tration limit (mg/kg at 10,000 BTU/lb)	Minimum required detection limit (mg/kg)
2-Ethoxyethanol [Ethylene glycol monoethyl ether]	110-80-5	100	
Isobutyl alcohol	78-83-1	39	
Isosafrole	120-58-1	2400	
Methyl ethyl ketone [2-Butanone]	78-93-3	39	
Methyl methacrylate	80-62-6	39	
1,4-Naphthoquinone	130-15-4	2400	
Phenol	108-95-2	2400	
Propargyl alcohol [2-Propyn-1-ol]	107-19-7	30	
Safrole	94-59-7	2400	
Sulfonated Organics:	J1 35 7	2100	
Carbon disulfide	75-15-0	ND	39
Disulfoton	298-04-4	ND	2400
Ethyl methanesulfonate	62-50-0	ND	2400
Methyl methanesulfonate	66-27-3	ND	2400
Phorate	298-02-2	ND	2400
1,3-Propane sultone	1120-71-4	ND	100
Tetraethyldithiopyrophosphate [Sulfotepp]	3689-24-5	ND	2400
Thiophenol [Benzenethiol]	108-98-5	ND	30
0,0,0-Triethyl phosphorothioate	126-68-1	ND ND	2400
Nitrogenated Organics:	120-00-1	ND	2400
Acetonitrile [Methyl cyanide]	75-05-8	ND	39
2-Acetylaminofluorene [2-AAF]	53-96-3	ND	2400
Acrylonitrile	107-13-1	ND ND	39
4-Aminobiphenyl	92-67-1	ND ND	2400
4-Aminopyridine	504-24-5	ND ND	100
Aniline	62-53-3	ND ND	2400
Benzidine	92-87-5	ND	2400
Dibenz[a,j]acridine	224-42-0	ND	2400
0,0-Diethyl O-pyrazinyl phosphorothioate	297-97-2	ND ND	2400
[Thionazin]	CO F1 F	MD	2400
Dimethoate p-(Dimethylamino) azobenzene [4-	60-51-5	ND ND	2400
Dimethylaminoazobenzene]	110 00 0		0.400
3,3'-Dimethylbenzidine	119-93-7	ND	2400
$\alpha$ , $\alpha$ -Dimethylphenethylamine	122-09-8	ND	2400
3,3'-Dimethoxybenzidine	119-90-4	ND	100
1,3-Dinitrobenzene [m-Dinitrobenzene]	99-65-0	ND	2400
4,6-Dinitro-o-cresol	534-52-1	ND	2400
2,4-Dinitrophenol	51-28-5	ND	2400
2,4-Dinitrotoluene	121-14-2	ND	2400
2,6-Dinitrotoluene	606-20-2	ND	2400
Dinoseb [2-sec-Butyl-4,6-dinitrophenol]	88-85-7	ND	2400
Diphenylamine	122-39-4	ND	2400
Ethyl carbamate [Urethane]	51-79-6	ND	100
Ethylenethiourea (2-Imidazolidinethione)	96-45-7	ND	110
Famphur	52-85-7	ND	2400
Methacrylonitrile	126-98-7	ND	39
Methapyrilene	91-80-5	ND	2400
Methomyl	16752-77-5	ND	57
2-Methyllactonitrile, [Acetone cyanohydrin]	75-86-5	ND	100
Methyl parathion	298-00-0	ND	2400
MNNG (N-Metyl-N-nitroso-N=-nitroguanidine)	70-25-7	ND	110
1-Naphthylamine,[ $\alpha$ -Naphthylamine]	134-32-7	ND	2400

		Concen-	
		tration	Minimum
Chemical Name	CAS No.	limit	required
CHEILICAI Naille	CAS NO.	(mg/kg at	detection
		10,000	limit (mg/kg)
		BTU/lb)	
2-Naphthylamine, [β-Naphthylamine]	91-59-8	ND	2400
Nicotine	54-11-5		100
		ND	
4-Nitroaniline, [p-Nitroaniline]	100-01-6	ND	2400
Nitrobenzene	98-95-3	ND	2400
p-Nitrophenol, [p-Nitrophenol]	100-02-7	ND	2400
5-Nitro-o-toluidine	99-55-8	ND	2400
N-Nitrosodi-n-butylamine	924-16-3	ND	2400
N-Nitrosodiethylamine	55-18-5	ND	2400
N-Nitrosodiphenylamine,[Diphenylnitrosamine]	86-30-6	ND	2400
N-Nitroso-N-methylethylamine	10595-95-6	ND	2400
N-Nitrosomorpholine	59-89-2	ND	2400
N-Nitrosopiperidine	100-75-4	ND	2400
N-Nitrosopyrrolidine	930-55-2	ND	2400
2-Nitropropane	79-46-9	ND	30
Parathion	56-38-2	ND	2400
Phenacetin	62-44-2	ND	2400
1,4-Phenylene diamine, [p-Phenylenediamine]	106-50-3	ND	2400
N-Phenylthiourea	103-85-5	ND	57
2-Picoline [alpha-Picoline]	109-06-8	ND	2400
Propylthioracil, [6-Propyl-2-thiouracil]	51-52-5	ND	100
Pyridine	110-86-1	ND	2400
Strychnine	57-24-9	ND	100
Thioacetamide	62-55-5	ND	57
Thiofanox	39196-18-4	ND	100
Thiourea	62-56-6	ND	57
Toluene-2,4-diamine [2,4-Diaminotoluene]	95-80-7	ND	57
Toluene-2,6-diamine [2,6-Diaminotoluene]	823-40-5	ND	57
			2400
o-Toluidine	95-53-4	ND	
p-Toluidine	106-49-0	ND	100
1,3,5-Trinitrobenzene, [sym-Trinitobenzene]	99-35-4	ND	2400
Halogenated Organics <sup>5</sup> :			
Allyl chloride	107-05-1	ND	39
Aramite	140-57-8	ND	2400
Benzal chloride [Dichloromethyl benzene]	98-87-3	ND	100
Benzyl chloride	100-44-77	ND	100
bis(2-Chloroethyl)ether [Dichoroethyl ether]	111-44-4	ND	2400
Bromoform [Tribromomethane]		ND ND	
	75-25-2		39
Bromomethane [Methyl bromide]	74-83-9	ND	39
4-Bromophenyl phenyl ether [p-Bromo diphenyl	101-55-3	ND	2400
ether]	201 33 3	1,10	2100
Carbon tetrachloride	56-23-5	ND	39
Chlordane	57-74-9	ND	14
p-Chloroaniline	106-47-8	ND	2400
Chlorobenzene	108-90-7	ND	39
Chlorobenzilate	510-15-6	ND	2400
p-Chloro-m-cresol	59-50-7	ND	2400
2-Chloroethyl vinyl ether	110-75-8	ND	39
Chloroform	67-66-3	ND	39
Chloromethane [Methyl chloride]	74-87-3	ND	39
2-Chlorophthalene [beta-Chlorophthalene]	91-58-7	ND	2400
2-Chlorophenol [o-Chlorophenol]	95-57-8	ND	2400
Chloroprene [2-Chloro-1,3-butadiene]	1126-99-8	ND	39
2,4-D [2,4-Dichlorophenoxyacetic acid]	94-75-7	ND	7.0
Diallate	2303-16-4	ND	2400
PIGITACE	2303-10-4	עוז	<b>∠</b> 400

		Concen-	
		tration	Minimum
		limit	required
Chemical Name	CAS No.	(mg/kg	detection
		at	limit (mg/kg)
		10,000	TIMIC (Mg/Ng/
		BTU/lb)	
1,2-Dibromo-3-chloropropane	96-12-8	ND	39
1,2-Dichlorobenzene [o-Dichlorobenzene]	95-50-1	ND	2400
1,3-Dichlorobenzene [m-Dichlorobenzene]	541-73-1	ND	2400
1,4-Dichlorobenzene [p-Dichlorobenzene]	106-46-7	ND	2400
3,3'-Dichlorobenzidine	91-94-1	ND	2400
Dichlorodifluoromethane [CFCB12]	75-71-8	ND	39
1,2-Dichloroethane [Ethylene dichloride]	107-06-2		
		ND	39
1,1-Dichloroethylene [Vinylidene chloride]	75-35-4	ND	39
Dichloromethoxy ethane [Bis(2-	111-91-1	ND	2400
chloroethoxy)methane]			
2,4-Dichlorophenol	120-83-2	ND	2400
2,6-Dichlorophenol	87-65-0	ND	2400
1,2-Dichloropropane [Propylene dichloride]	78-87-5	ND	39
cis-1,3-Dichloropropylene	10061-01-5	ND	39
trans-1,3-Dichloropropylene	10061-02-6	ND	39
1,3-Dichloro-2-propanol	96-23-1	ND	30
Endosulfan I	959-98-8	ND	1.4
Endosulfan II	33213-65-9	ND	1.4
Endrin	72-20-8	ND ND	1.4
Endrin aldehyde	7421-93-4	ND	1.4
Endrin Ketone	53494-70-5	ND	1.4
Epichlorohydrin [1-Chloro-2,3-epoxy propane]	106-89-8	ND	30
Ethylidene dichloride [1,1-Dichloroethane]	75-34-3	ND	39
2-Fluoroacetamide	640-19-7	ND	100
Heptachlor	76-44-8	ND	1.4
Heptachlor epoxide	1024-57-3	ND	2.8
Hexachlorobenzene	118-74-1	ND	2400
Hexachloro-1,3-butadiene[Hexachlorobutadiene]	87-68-3	ND	2400
Hexachlorocyclopentadiene	77-47-4	ND	2400
Hexachloroethane	67-72-1	ND	2400
Hexachlorophene	70-30-4	ND ND	59000
Hexachloropropene [Hexachloropropylene]	1888-71-7	ND ND	2400
Isodrin	465-73-6	ND	2400
Kepone [Chlordecone]	143-50-0	ND	4700
Lindane [gamma-BHC] [gamma-	58-89-9	ND	1.4
Hexachlorocyclohexane]			
Methylene chloride [Dichloromethane]	75-09-2	ND	39
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND	100
Methyl iodide [Iodomethane]	74-88-4	ND	39
Pentachlorobenzene	608-93-5	ND	2400
Pentachloroethane	76-01-7	ND	39
Pentachloronitrobenzene [PCNB][Quintobenzene]			3,7
	82-68-8	ND	2400
[Quintozene]		1,10	2100
Pentachlorophenol	87-86-5	ND	2400
Pronamide	23950-58-5	ND ND	2400
Silvex [2,4,5-Trichlorophenoxypropionic acid]	93-72-1	ND	7.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin [2,3,7,8-	1746-01-6	ND	30
TCDD]			
1,2,4,5-Tetrachlorobenzene	95-94-3	ND	2400
1,1,2,2-Tetrachloroethane	79-34-5	ND	39
Tetrachloroethylene [Perchloroethylene]	127-18-4	ND	39
2,3,4,6-Tetrachlorophenol	58-90-2	ND	2400
1,2,4-Trichlorobenzene	120-82-1	ND	2400
1,1,1-Trichloroethane [Methyl chloroform]	71-55-6	ND	39
, , ==================================	12 55 0	2.0	

Chemical Name	CAS No.	Concen- tration limit (mg/kg at 10,000 BTU/lb)	Minimum required detection limit (mg/kg)
1,1,2-Trichloroethane [Vinyl trichloride]	79-00-5	ND	39
Trichloroethylene	79-01-6	ND	39
Trichlorofluoromethane [Trichlormonofluoromethane]	75-69-4	ND	39
2,4,5-Trichlorophenol	95-95-4	ND	2400
2,4,6-Trichlorophenol	88-06-2	ND	2400
1,2,3-Trichloropropane	96-18-4	ND	39
Vinyl Chloride	75-01-4	ND	39

- Absence of PCBs can also be demonstrated by using appropriate screening methods, e.g., immunoassay kit for PCB in oils (Method 4020) or colorimetric analysis for PCBs in oil (Method 9079).
- Some minimum required detection limits are above the total halogen limit of 540 ppm. The detection limits reflect what was achieved during EPA testing and analysis and also analytical complexity associated with measuring all halogen compounds on Appendix H at low levels. EPA recognizes that in practice the presence of these compounds will be functionally limited by the molecular weight and the total halogen limit of 540 ppm.
  - (1) 25 or individual halogenated organics listed below.
- 261.38(c) (iii) Implementation. Waste that meets the comparable or syngas fuel specifications provided by Sections 4(h)(i)or(ii) of this Chapter (these constituent levels must be achieved by the comparable fuel when generated, or as a result of treatment or blending, as provided in Sections 4(h)(iii)(C) or (D) of this Chapter) is excluded from the definition of waste material provided that the following requirements are met:
- 261.38(c)(1) (A) Notices. For purposes of Section 4(h) of this Chapter, the person claiming and qualifying for the exclusion is called the comparable/syngas fuel generator and the person burning the comparable/syngas fuel is called the comparable/syngas burner. The person who generates the comparable fuel or syngas fuel must claim and certify to the exclusion.
- $\dots$  (I) The Director or the Solid and Hazardous Waste and Air Quality Administrators.
- ...(i)(A)

  (1.) The generator must submit a one-time notice to the Director or Solid and Hazardous Waste and Air Quality Administrators in whose jurisdiction the exclusion is being claimed and where the comparable/syngas fuel will be burned, certifying compliance with the conditions of the exclusion and providing documentation as required by Section 4(h)(iii)(A)(I)(3.) of this Chapter;
- ...(i)(B)

  (2.) If the generator is a company that generates comparable/syngas fuel at more than one facility, the generator shall specify at which sites the comparable/syngas fuel will be generated;
- ...(i)(C) (3.) A comparable/syngas fuel

generator=s notification to the Director or Solid and Hazardous Waste and Air Quality Administrators must contain the following items:

- $\dots$  (i)(C)(1) (a.) The name, address, and RCRA ID number of the person/facility claiming the exclusion;
- $\dots$  (i)(C)(2) (b.) The applicable EPA Hazardous Waste Codes for the hazardous waste;
- ...(i)(C)(3)

  (c.) Name and address of the units, meeting the requirements of Section 4(h)(iii)(B) of this Chapter, that will burn the comparable/syngas fuel; and
- $\dots$  (d.) The following statement is signed and submitted by the person claiming the exclusion or his or her authorized representative:

"Under penalty of criminal and civil prosecution for making or submitting false statements, representations, or omissions, I certify that the requirements of Section 4(h) of this Chapter have been met for all waste identified in this notification. Copies of the records and information required at Section 4(h)(iii)(J) of this Chapter are available at the comparable/syngas fuel generator=s facility. Based on my inquiry of the individuals immediately responsible for obtaining the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- ...(ii) (II) Public notice. Prior to burning an excluded comparable/syngas fuel, the burner must publish in a major newspaper of general circulation local to the site where the fuel will be burned, a notice entitled "Notification of Burning a Comparable/Syngas Fuel Excluded Under the Resource Conservation and Recovery Act" containing the following information:
- ...(ii)(A) (1.) Name, address, and RCRA ID number of the generating facility;
- ...(ii)(B) (2.) Name and address of the unit(s) that will burn the comparable/syngasfuel;
- ...(ii)(C) (3.) A brief, general description of the manufacturing, treatment, or other process generating the comparable/syngas fuel;
- $\dots$  (ii)(D) (4.) An estimate of the average and maximum monthly and annual quantity of the waste claimed to be excluded; and
- $\dots$  (ii)(E) (5.) Name and mailing address of the Director or Solid and Hazardous Waste and Air Quality Administrators to whom the claim was submitted.
- 261.38(c)(2) (B) Burning. The comparable/syngas fuel exclusion for fuels meeting the requirements of Section 4(h)(i) or (ii) and (iii)(A) of this Chapter applies only if the fuel is burned in the following units that also shall be subject to Federal/State/local air emission requirements, including all applicable CAA MACT requirements:
- ...(i) (I) Industrial furnaces as defined in Chapter 1, Section 1(f)(i) of these rules and regulations;

- ...(ii) (II) Boilers, as defined in Chapter 1, Section 1(f)(i) of these rules and regulations, that are further defined as follows:
- ...(ii)(A)

  (1.) Industrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes; or
- ...(ii)(B) (2.) Utility boilers used to produce electric power, steam, heated or cooled air, or other gases or fluids for sale;
- ...(iii) (III) Hazardous waste incinerators subject to regulation under Chapter 10, Section 14 of these rules and regulations; Chapter 11, Section 16 of these rules and regulations; or applicable CAA MACT standards.
- 261.38(c)(3) (C) Blending to meet the viscosity specification. A hazardous waste blended to meet the viscosity specification shall:
- ...(i) (I) As generated and prior to any blending, manipulation, or processing meet the constituent and heating value specifications of Sections 4(h)(i)(A)(I) and (i)(B) of this Chapter;
- ...(ii) (II) Be blended at a facility that is subject to the applicable requirements of Chapters 5, 10 and 11 of these rules and regulations; or Chapter 8, Section 3(e) of these rules and regulations; and
- ...(iii) (III) Not violate the dilution prohibition of Section 4(h)(iii)(F) of this Chapter.
- 261.38(c)(4) (D) Treatment to meet the comparable fuel exclusion specifications.
- ...(i) (I) A hazardous waste may be treated to meet the exclusion specifications of Sections 4(h)(i)(A) and (B) of this Chapter provided the treatment:
- ...(i)(A)

  (1.) Destroys or removes the constituent listed in the specification or raises the heating value by removing or destroying hazardous constituents or materials;
- ...(i)(B) (2.) Is performed at a facility that is subject to the applicable requirements of Chapters 5, 10 and 11 of these rules and regulations, or Chapter 8, Section 3(e) of these rules and regulations; and
- ...(i)(C)  $\qquad \qquad (3.) \quad \text{Does not violate the dilution prohibition of Section 4(h)(iii)(F) of this Chapter.}$
- ...(ii) (II) Residuals resulting from the treatment of a hazardous waste listed in Section 4 of this Chapter to generate a comparable fuel remain a hazardous waste.
- 261.38(c)(5) (E) Generation of a syngas fuel.
- ...(i) (I) A syngas fuel can be generated from the processing of hazardous wastes to meet the exclusion specifications of Section 4(h)(ii) of this Chapter provided the processing:
- ...(i)(A)  $\qquad \qquad (1.) \ \ \text{Destroys or removes the} \\ \text{constituent listed in the specification or raises the heating value} \\ \text{by removing or destroying constituents or materials;}$

- ...(i)(B)

  (2.) Is performed at a facility that is subject to the applicable requirements of Chapters 5, 10 and 11 of these rules and regulations, or Chapter 8, Section 3(e) of these rules and regulations; or is an exempt recycling unit pursuant to Section 1(f)(iii) of this Chapter; and
- ...(i)(C) (3.) Does not violate the dilution prohibition of Section 4(h)(iii)(F) of this Chapter.
- ...(ii) (II) Residuals resulting from the treatment of a hazardous waste listed in Section 4 of this Chapter to generate a syngas fuel remain a hazardous waste.
- 261.38(c)(6) (F) Dilution prohibition for comparable and syngas fuels. No generator, transporter, handler, or owner or operator of a treatment, storage, or disposal facility shall in any way dilute a hazardous waste to meet the exclusion specifications of Sections 4(h)(i)(A)(I), (i)(B) or (ii) of this Chapter.
- 261.38(c)(7) (G) Waste analysis plans. The generator of a comparable/syngas fuel shall develop and follow a written waste analysis plan which describes the procedures for sampling and analysis of the hazardous waste to be excluded. The waste analysis plan shall be developed in accordance with the applicable Sections of the "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW 846). The plan shall be followed and retained at the facility excluding the waste.
- ...(i) At a minimum, the plan must specify:
- $\dots$  (i)(A) (1.) The parameters for which each hazardous waste will be analyzed and the rationale for the selection of those parameters;
- $\dots$  (i)(B) (2.) The test methods which will be used to test for these parameters;
- $\dots$  (i)(C) (3.) The sampling method which will be used to obtain a representative sample of the waste to be analyzed;
- ...(i)(D) (4.) The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up to date; and
- $\dots$  (i)(E) (5.) If process knowledge is used in the waste determination, any information prepared by the generator in making such determination.
- $\dots$  (II) The waste analysis plan shall also contain records of the following:
- ...(ii)(A) (1.) The dates and times waste samples were obtained, and the dates the samples were analyzed;
- ...(ii)(B) (2.) The names and qualifications of the person(s) who obtained the samples;
- ...(ii)(C)  $\hspace{1cm} ({\tt 3.}) \quad {\tt A \ description \ of \ the \ temporal \ and } \\ {\tt spatial \ locations \ of \ the \ samples;}$
- ...(ii)(D)  $\hspace{1cm} (4.) \hspace{0.5cm} \text{The name and address of the laboratory facility at which analyses of the samples were performed;}$
- ...(ii)(E) (5.) A description of the analytical

methods used, including any clean-up and sample preparation methods;

- ...(ii)(F)

  (6.) All quantitation limits achieved and all other quality control results for the analysis (including method blanks, duplicate analyses, matrix spikes, etc.), laboratory quality assurance data, and description of any deviations from analytical methods written in the plan or from any other activity written in the plan which occurred;
- ...(ii)(G)  $\qquad \qquad (7.) \ \ \text{All laboratory results} \\ \text{demonstrating that the exclusion specifications have been met for the} \\ \text{waste; and}$
- ...(ii)(H) (8) All laboratory documentation that support the analytical results, unless a contract between the claimant and the laboratory provides for the documentation to be maintained by the laboratory for the period specified in [paragraph (c)(11) of this Section] Section 4(h)(iii)(K) of this Chapter and also provides for the availability of the documentation to the claimant upon request.
- ...(iii) (III) Syngas fuel generators shall submit for approval, prior to performing sampling, analysis, or any management of a syngas fuel as an excluded waste, a waste analysis plan containing the elements of Section 4(h)(iii)(G)(I) of this Chapter to the appropriate regulatory authority. The approval of waste analysis plans must be stated in writing and received by the facility prior to sampling and analysis to demonstrate the exclusion of a syngas. The approval of the waste analysis plan may contain such provisions and conditions as the regulatory authority deems appropriate.
- 261.38(c)(8) (H) Comparable fuel sampling and analysis.
- ...(i)

  (I) General. For each waste for which an exclusion is claimed, the generator of the hazardous waste must test for all the constituents on appendix H of this Chapter, except those that the generator determines, based on testing or knowledge, should not be present in the waste. The generator is required to document the basis of each determination that a constituent should not be present. The generator may not determine that any of the following categories of constituents should not be present:
- ...(i)(A)

  (1.) A constituent that triggered the toxicity characteristic for the waste constituents that were the basis of the listing of the waste stream, or constituents for which there is a treatment standard for the waste code in Chapter 13, Section 4(a) of these rules and regulations;
- ...(i)(B) (2.) A constituent detected in previous analysis of the waste;
- ...(i)(C)  $\hspace{1cm} \text{(3.)} \hspace{0.2cm} \text{Constituents introduced into the process that generates the waste; or }$
- $\dots$  (i)(D) (4.) Constituents that are byproducts or side reactions to the process that generates the waste.

Note to Section 4(h)(iii)(H) of this Chapter: Any claim under this Section must be valid and accurate for all hazardous constituents; a determination not to test for a hazardous constituent will not shield a generator from liability should that constituent later be found in the waste above the exclusion specifications.

 $\dots$  (II) For each waste for which the exclusion is claimed where the generator of the comparable/syngas fuel is not

the original generator of the hazardous waste, the generator of the comparable/syngas fuel may not use process knowledge pursuant to Section 4(d)(iii)(H)(I) of this Chapter and must test to determine that all of the constituent specifications of Section 4(h)(i)(B) and (ii) of this Chapter have been met.

- ...(iii) (III) The comparable/syngas fuel generator may use any reliable analytical method to demonstrate that no constituent of concern is present at concentrations above the specification levels. It is the responsibility of the generator to ensure that the sampling and analysis are unbiased, precise, and representative of the waste. For the waste to be eligible for exclusion, a generator must demonstrate that:
- ...(iii)(A) (1.) Each constituent of concern is not present in the waste above the specification level at the 95% upper confidence limit around the mean; and
- ...(iii)(B) (2.) The analysis could have detected the presence of the constituent at or below the specification level at the 95% upper confidence limit around the mean.
- ...(iv) (IV) Nothing in this paragraph preempts, overrides or otherwise negates the provision in Chapter 8, Section 1(b) of these rules and regulations, which requires any person who generates a waste material to determine if that waste is a hazardous waste.
- ...(v) (V) In an enforcement action, the burden of proof to establish conformance with the exclusion specification shall be on the generator claiming the exclusion.
- ...(vi) (VI) The generator must conduct sampling and analysis in accordance with their waste analysis plan developed under Section 4(h)(iii)(G) of this Chapter.
- ...(vii) (VII) Syngas fuel and comparable fuel that has not been blended in order to meet the kinematic viscosity specifications shall be analyzed as generated.
- ...(viii) (VIII)If a comparable fuel is blended in order to meet the kinematic viscosity specifications, the generator shall:
- ...(viii)(A) (1.) Analyze the fuel as generated to ensure that it meets the constituent and heating value specifications; and
- ...(viii)(B) (2.) After blending, analyze the fuel again to ensure that the blended fuel continues to meet all comparable/syngas fuel specifications.
- ...(ix) (IX) Excluded comparable/syngas fuel must be re-tested, at a minimum, annually and must be retested after a process change that could change the chemical or physical properties of the waste.
- 261.38(c)(9) (I) Speculative accumulation. Any persons handling a comparable/syngas fuel are subject to the speculative accumulation test under Chapter 1, Section 1(f)(i), "waste material", (C)(IV) of these rules and regulations.
- 261.38(c)(10) (J) Records. The generator must maintain records of the following information on-site:

- $\dots$  (I) All information required to be submitted to the implementing authority as part of the notification of the claim:
- $\dots$  (i)(A) (1.) The owner/operator name, address, and RCRA facility ID number of the person claiming the exclusion;
- ...(i)(B)  $\hbox{ (2.) The applicable EPA Hazardous } \\ \hbox{ Waste Codes for each hazardous waste excluded as a fuel; and }$
- $\dots$  (i)(C) (3.) The certification signed by the person claiming the exclusion or his or her authorized representative.
- ...(ii) (II) A brief description of the process that generated the hazardous waste and process that generated the excluded fuel, if not the same;
- ...(iii) (III) An estimate of the average and maximum monthly and annual quantities of each waste claimed to be excluded;
- ...(iv) (IV) Documentation for any claim that a constituent is not present in the hazardous waste as required under Section (h)(iii)(H)(I) of this Chapter;
- ...(v) (V) The results of all analyses and all detection limits achieved as required under Section 4(h)(iii)(H) of this Chapter;
- ...(vi)  $(VI) \quad \text{If the excluded waste was generated} \\ \text{through treatment or blending, documentation as required under} \\ \text{Section 4(h)(iii)(C) or (D) of this Chapter;}$
- ...(vii) (VII) If the waste is to be shipped off-site, a certification from the burner as required under Section 4(h)(iii)(L) of this Chapter;
- ...(viii) A waste analysis plan and the results of the sampling and analysis that includes the following:
- ...(viii)(A) (1.) The dates and times waste samples were obtained, and the dates the samples were analyzed;
- ...(viii)(B) (2.) The names and qualifications of the person(s) who obtained the samples;
- ...(viii)(C) (3.) A description of the temporal and spatial locations of the samples;
- ...(viii)(D) (4.) The name and address of the laboratory facility at which analyses of the samples were performed;
- ...(viii)(E) (5.) A description of the analytical methods used, including any clean-up and sample preparation methods;
- ...(viii)(F) (6.) All quantitation limits achieved and all other quality control results for the analysis (including method blanks, duplicate analyses, matrix spikes, etc.), laboratory quality assurance data, and description of any deviations from analytical methods written in the plan or from any other activity written in the plan which occurred;
- $\dots$  (viii)(G) (7.) All laboratory analytical results demonstrating that the exclusion specifications have been met for the waste; and

- ...(viii)(H)

  (8) All laboratory documentation that support the analytical results, unless a contract between the claimant and the laboratory provides for the documentation to be maintained by the laboratory for the period specified in Section 4(h)(iii)(K) of this Chapter and also provides for the availability of the documentation to the claimant upon request; and
- ...(ix) (IX) If the generator ships comparable/syngas fuel off-site for burning, the generator must retain for each shipment the following information on-site:
- $\dots$  (1.) The name and address of the facility receiving the comparable/syngas fuel for burning;
- $\dots$  (ix)(B) (2.) The quantity of comparable/syngas fuel shipped and delivered;
- ...(ix)(C) (3.) The date of shipment or delivery;
- ...(ix)(D) (4.) A cross-reference to the record of comparable/syngas fuel analysis or other information used to make the determination that the comparable/syngas fuel meets the specifications as required under Section 4(h)(iii)(H) of this Chapter; and
- ...(ix)(E) (5.) A one-time certification by the burner as required under [paragraph (c)(12) of this Section] Section 4(h)(iii)(L) of this Chapter.
- 261.38(c)(11) (K) Records retention. Records must be maintained for the period of three years. A generator must maintain a current waste analysis plan during a three year period.
- 261.38(c)(12) (L) Burner certification. Prior to submitting a notification to the State and Regional Directors, a comparable/syngas fuel generator who intends to ship their fuel off-site for burning must obtain a one-time written, signed statement from the burner:
- ...(i)

  (I) Certifying that the comparable/syngas fuel will only be burned in an industrial furnace or boiler, utility boiler, or hazardous waste incinerator, as required under Section 4(h)(iii)(B) of this Chapter;
- ...(ii) (II) Identifying the name and address of the units that will burn the comparable/syngas fuel; and
- ...(iii) (III) Certifying that the state in which the burner is located is authorized to exclude wastes as comparable/syngas fuel under the provisions of this Section.
- 261.38(c)(13) (M) Ineligible waste codes. Wastes that are listed because of presence of dioxins or furans, as set out in appendix G of this Chapter, are not eligible for this exclusion, and any fuel produced from or otherwise containing these wastes remains a hazardous waste subject to full ^ hazardous waste management requirements.

#### Appendix A - Representative Sampling Methods

The methods and equipment used for sampling waste materials will vary with the form and consistency of the waste materials to be sampled. Samples collected using the sampling protocols listed below, for sampling waste with properties similar to the indicated materials, will be considered by the Agency to be representative of the waste.

Extremely viscous liquid -- ASTM Standard D140-70 Crushed or powdered material -- ASTM Standard D346-75 Soil or rock-like material -- ASTM Standard D420-69 Soil-like material -- ASTM Standard D1452-65

Fly Ash-like material -- ASTM Standard D2234-76 [ASTM Standards are available from ASTM, 1916 Race St., Philadelphia, PA 19103]

Containerized liquid wastes -- "COLIWASA" described in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," 12 U.S. Environmental Protection Agency, Office of Solid Waste, Washington, D.C. 20460. [Copies may be obtained from Solid Waste Information, U.S. Environmental Protection Agency, 26 W. St. Clair St., Cincinnati, Ohio 452681

FOOTNOTE:  $^{\rm 1a}{\rm These}$  methods are also described in "Samplers and Sampling Procedures for Hazardous Waste Streams," EPA 600/2-80-018, January 1980.

Liquid waste in pits, ponds, lagoons, and similar reservoirs. -- "Pond Sampler" described in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods." 12

This manual also contains additional information on application of these protocols.

# Appendix B - Method 1311 Toxicity Characteristic Leaching Procedure (TCLP)

[\*Note: The TCLP (Method 1311) is published in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in Chapter 1, Section 1(g)(i)(L) of these rules and regulations.]

#### Appendix C - Chemical Analysis Test Methods

[\*Note: Appropriate analytical procedures to determine whether a sample contains a given toxic constituent are specified in Chapter Two, "Choosing the Correct Procedure" found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in Chapter 1, Section 1(g)(i)(L) of these rules and regulations. Prior to final sampling and analysis method selection, the individual should consult the specific Section or method described in SW-846 for additional guidance on which of the approved methods should be employed for a specific sample analysis situation.]

## Appendix D - Reserved

Reserved.

## Appendix E - Reserved

Reserved.

## Appendix F - Reserved

Reserved.

Appendix G - Basis for listing Hazardous Waste

EPA HAZARDOUS WASTE NO.	HAZARDOUS CONSTITUENTS FOR WHICH LISTED
F001	Tetrachloroethylene, methylene chloride trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons.
F002	Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trichfluoroethane, ortho-dichlorobenzene, trichlorofluoromethane.
F003	N.A.
F004	Cresols and cresylic acid, nitrobenzene.
F005	Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, 2-ethoxyethanol, benzene, 2-nitropropane.
F006	Cadmium, hexavalent chromium, nickel, cyanide (complexed).
F007	Cyanide (salts).
F008	Cyanide (salts).
F009	Cyanide (salts).
F010	Cyanide (salts).
F011	Cyanide (salts).
F012	Cyanide (complexed).
F019	Hexavalent chromium, cyanide (complexed).
F020	Tetra- and pentachlorodibenzo-p-dioxins; tetra and pentachlorodi-benzofurans; tri- and tetrachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.
F021	Penta- and hexachlorodibenzo-p-dioxins; penta- and hexachlorodibenzofurans; pentachlorophenol and its derivatives.
F022	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans.
F023	Tetra-, and pentachlorodibenzo-p-dioxins; tetra- and pentachlorodibenzofurans; tri- and tetrachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.
F024	Chloromethane, dichloromethane, trichloromethane, carbon tetrachloride, chloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, trans-1-2-dichloroethylene, 1,1-dichloroethylene, 1,1-trichloroethylene, 1,1,2-trichloroethane, trichloroethylene, 1,1,2-tetra-chloroethane, trichloroethylene, 1,1,1,2-tetra-chloroethane, 1,1,2,2-tetrachloroethane, tetrachloroethylene, pentachloroethane, hexachloroethane, allyl chloride (3-chloropropene), dichloropropane, dichloropropene, 2-chloro-1,3-butadiene, hexachloro-1,3-butadiene, hexachlorocyclopentadiene, hexachlorocyclohexane, benzene, chlorbenzene, dichlorobenzenes, 1,2,4-trichlorobenzene, tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, toluene, naphthalene.
F025	Chloromethane; Dichloromethane; Trichloromethane; Carbon tetrachloride; Chloroethylene; 1,1-Dichloroethane; 1,2-

EPA HAZARDOUS WASTE NO.	HAZARDOUS CONSTITUENTS FOR WHICH LISTED	
	Dichloroethane; trans-1,2-Dichloroethylene; 1,1-Dichloroethylene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethane; 1,1,2-Tetrachloroethane; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; Pentachloroethane; Hexachloroethane; Allyl chloride (3-Chloropropene); Dichloropropane; Dichloropropene; 2-Chloro-1,3-butadiene; Hexachloro-1,3-butadiene; Hexachlorocyclopentadiene; Benzene; Chlorobenzene; Dichlorobenzene; 1,2,4-Trichlorobenzene; Tetrachlorobenzene; Pentachlorobenzene; Hexachlorobenzene; Toluene; Naphthalene.	
F026	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans.	
F027	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.	
F028	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.	
F032	Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)- anthracene,indeno(1,2,3-cd)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans.	
F034	Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium.	
F035	Arsenic, chromium, lead.	
F037	Benzene, benzo(a)pyrene, chrysene, lead, chromium.	
F038	Benzene, benzo(a)pyrene chrysene, lead, chromium.	
F039	All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under Chapter 13, Section 4(a) Table "Treatment Standards" in these rules and regulations.	
к001	Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, cresosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene.	
K002	Hexavalent chromium, lead	
K003	Hexavalent chromium, lead.	
K004	Hexavalent chromium.	
К005	Hexavalent chromium, lead.	
К006	Hexavalent chromium.	
K007	Cyanide (complexed), hexavalent chromium.	
K008	Hexavalent chromium.	
к009	Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid.	
K010	Chloroform, formaldehyde, methylene chloride, methyl chloride,	

EPA HAZARDOUS WASTE NO.	HAZARDOUS CONSTITUENTS FOR WHICH LISTED		
	paraldehyde, formic acid, chloroacetaldehyde.		
К011	Acrylonitrile, acetonitrile, hydrocyanic acid.		
к013	Hydrocyanic acid, acrylonitrile, acetonitrile.		
К014	Acetonitrile, acrylamide.		
К015	Benzyl chloride, chlorobenzene, toluene, benzotrichloride.		
K016	Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene.		
K017	Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols.		
К018	1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene.		
K019	Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.		
K020	Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.		
K021	Antimony, carbon tetrachloride, chloroform.		
K022	Phenol, tars (polycyclic aromatic hydrocarbons).		
к023	Phthalic anhydride, maleic anhydride.		
K024	Phthalic anhydride, 1,4-naphthoquinone.		
К025	Meta-dinitrobenzene, 2,4-dinitrotoluene.		
К026	Paraldehyde, pyridines, 2-picoline.		
К027	Toluene diisocyanate, toluene-2, 4-diamine.		
К028	1,1,1-trichloroethane, vinyl chloride.		
К029	1,2-dichloroethane, 1,1,1-trichloroethane, vinyl chloride, vinylidene chloride, chloroform.		
к030	Hexachlorobenzene, hexachlorobutadiene, hexachloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, ethylene dichloride.		
к031	Arsenic.		
к032	Hexachlorocyclopentadiene.		
к033	Hexachlorocyclopentadiene.		
К034	Hexachlorocyclopentadiene.		
к035	Creosote, chrysene, naphthalene, fluoranthene benzo(b) fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd) pyrene, benzo(a)anthracene, dibenzo(a)anthracene, acenaphthalene.		
к036	Toluene, phosphorodithioic and phosphorothioic acid esters.		
к037	Toluene, phosphorodithioic and phosphorothioic acid esters.		

EPA HAZARDOUS WASTE NO.	HAZARDOUS CONSTITUENTS FOR WHICH LISTED
к038	Phorate, formaldehyde, phosphorodithioic and phosphorothioic acid esters.
К039	Phosphorodithioic and phosphorothioic acid esters.
K040	Phorate, formaldehyde, phosphorodithioic and phosphorothioic acid esters.
К041	Toxaphene.
К042	Hexachlorobenzene, ortho-dichlorobenzene.
К043	2,4-dichlorophenol, 2,6-dichlorophenol, 2,4,6-trichlorophenol.
К044	N.A.
К045	N.A.
К046	Lead.
К047	N.A.
К048	Hexavalent chromium, lead.
К049	Hexavalent chromium, lead.
К050	Hexavalent chromium.
K051	Hexavalent chromium, lead.
К052	Lead.
К060	Cyanide, napthalene, phenolic compounds, arsenic.
K061	Hexavalent chromium, lead, cadmium.
K062	Hexavalent chromium, lead.
K064	Lead, cadmium.
К065	Do.
K066	Do.
К069	Hexavalent chromium, lead, cadmium.
K071	Mercury.
к073	Chloroform, carbon tetrachloride, hexacholroethane, trichloroethane, tetrachloroethylene, dichloroethylene, 1,1,2,2-tetrachloroethane.
К083	Aniline, diphenylamine, nitrobenzene, phenylenediamine.
К084	Arsenic.
к085	Benzene, dichlorobenzenes, trichlorobenzenes, tetrachlorobenzenes, pentachlorobenzene, hexachlorobenzene, benzyl chloride.
К086	Lead, hexavalent chromium.
к087	Phenol, naphthalene.
к088	Cyanide (complexes).
к090	Chromium.
К091	Do.
к093	Phthalic anhydride, maleic anhydride.

EPA HAZARDOUS WASTE NO.	HAZARDOUS CONSTITUENTS FOR WHICH LISTED
К094	Phthalic anhydride.
к095	1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane.
к096	1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane.
к097	Chlordane, heptachlor.
К098	Toxaphene.
к099	2,4-dichlorophenol, 2,4,6-trichlorophenol.
K100	Hexavalent chromium, lead, cadmium.
K101	Arsenic.
K102	Arsenic.
K103	Aniline, nitrobenzene, phenylenediamine.
K104	Aniline, benzene, diphenylamine, nitrobenzene, phenylenediamine.
к105	Benzene, monochlorobenzene, dichlorobenzenes, 2,4,6-trichlorophenol.
K106	Mercury.
K107	1,1-Dimethylhydrazine (UDMH).
K108	1,1-Dimethylhydrazine (UDMH).
K109	1,1-Dimethylhydrazine (UDMH).
K110	1,1-Dimethylhydrazine (UDMH).
K111	2,4-Dinitrotoluene.
K112	2,4-Toluenediamine, o-toluidine, p-toluidine, aniline.
K113	2,4-Toluenediamine, o-toluidine, p-toluidine, aniline.
K114	2,4-Toluenediamine, o-toluidine, p-toluidine.
K115	2,4-Toluenediamine.
к116	Carbon tetrachloride, tetrachloroethylene, chloroform, phosgene.
K117	Ethylene dibromide.
K118	Ethylene dibromide.
K123	Ethylene thiourea.
K124	Ethylene thiourea.
K125	Ethylene thiourea.
K126	Ethylene thiourea.
K131	Dimethyl sulfate, methyl bromide.
K132	Methyl bromide.
K136	Ethylene dibromide.
K141	Benzene, benz(a)anthracene, benzo(a)pyrene,

EPA HAZARDOUS WASTE NO.	HAZARDOUS CONSTITUENTS FOR WHICH LISTED	
	<pre>benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.</pre>	
K142	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.	
K143	Benzene, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene.	
K144	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene.	
К145	Benzene, benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)anthracene, naphthalene.	
K147	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.	
K148	Benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.	
K149	Benzotrichloride, benzyl chloride, chloroform, chloromethane, chlorobenzene, 1,4-dichlorobenzene, hexachlorobenzene, pentachlorobenzene, 1,2,4,5-tetrachlorobenzene, toluene.	
K150	Carbon tetrachloride, chloroform, chloromethane, 1,4-dichlorobenzene, hexachlorobenzene, pentachlorobenzene, 1,2,4,5-tetrachlorobenzene, 1,1,2,2-tetrachloroethane, tetrachloroethylene, 1,2,4-trichlorobenzene.	
К151	Benzene, carbon tetrachloride, chloroform, hexachlorobenzene, pentachlorobenzene, toluene, 1,2,4,5-tetrachlorobenzene, tetrachloroethylene.	
K156	Benomyl, carbaryl, carbendazim, carbofuran, carbosulfan, formaldehyde, methylene chloride, triethylamine.	
K157	Carbon tetrachloride, formaldehyde, methyl chloride, methylene chloride, pyridine, triethylamine.	
K158	Benomyl, carbendazim, carborfuran, carbosulfan, chloroform, methylene chloride.	
K159	Benzene, butylate, eptc, molinate, pebulate, vernolate.	
К161	Antimony, arsenic, metam-sodium, ziram.	
K169	Benzene.	
K170	Benzo(a)pyrene, dibenz(a,h)anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, 3-methylcholanthrene, 7,12-dimethylbenz(a)anthracene.	
K171	Benzene, arsenic.	
K172	Benzene, arsenic.	
K174	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD), 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF), 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,6,7,8,9-HpCDF), HxCDDs (All Hexachlorodibenzo-p-dioxins), HxCDFs (All Hexachlorodibenzofurans), PeCDDs (All Pentachlorodibenzo-p-dioxins), OCDD (1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin), OCDF (1,2,3,4,6,7,8,9-Octachlorodibenzofuran), PeCDFs (All Pentachlorodibenzofurans), TCDDs (All Tetrachlorodibenzo-p-dioxins), TCDFs (All Tetrachlorodibenzofurans).	
К175	Mercury	

 ${\tt FOOTNOTE: N.A. -- Waste is hazardous because it fails the test for the characteristic of ignitability, corrosivity, or reactivity.}$ 

Appendix H - Hazardous Constituents

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
A2213	Ethanimidothioic acid, 2- (dimethylamino) -N-hydroxy-2- oxo-, methyl ester	30558-43-1	U394
Acetonitrile	Same	75-05-8	П003
Acetophenone	Ethanone, 1-phenyl-	98-86-2	U004
2-Acetylaminefluarone	Acetamide, N-9H-fluoren-2-yl-	53-96-3	U005
Acetyl chloride	Same	75-36-5	U006
1-Acetyl-2-thiourea	Acetamide, N- (aminothioxomethyl)-	591-08-2	P002
Acrolein	2-Propenal	107-02-8	P003
Acrylamide	2-Propenamide	79-06-1	U007
Acrylonitrile	2-Propenenitrile	107-13-1	U009
Aflatoxins	Same	1402-68-2	
Aldicarb	Propanal, 2-methyl-2- (methylthio)-, 0- [(methylamino)carbonyl]oxime	116-06-3	P070
Aldicarb sulfone	Propanal, 2-methyl-2- (methylsulfonyl) -, 0- [(methylamino) carbonyl] oxime.	1646-88-4	P203
Aldrin	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-10-hexachloro- 1,4,4a,5,8,8a-hexahydro-, (lalpha,4alpha,4abeta,5alpha,8a lpha,8abeta)-	309-00-2	P004
Allyl alcohol	2-Propen-1-ol	107-18-6	P005
Allyl chloride	1-Propane, 3-chloro	107-18-6	
Aluminum phosphide	Same	20859-73-8	P006
4-Aminobiphenyl	[1,1'-Biphenyl]-4-amine	92-67-1	
5-(Aminomethyl)-3- isoxazolol	3(2H)-Isoxazolone, 5- (aminomethyl)-	2763-96-4	P007
4-Aminopyridine	4-Pyridinamine	504-24-5	P008
Amitrole	1H-1,2,4-Triazol-3-amine	61-82-5	U011
Ammonium vanadate	Vanadic acid, ammonium salt	7803-55-6	P119
Aniline	Benzenamine	62-53-3	U012
Antimony	Same	7440-36-0	
Antimony compounds, N.O.S.			
Aramite	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	
		1	1

Arsenic         Same         7440-38-2            Arsenic compounds, N.O.S.              Arsenic acid         Arsenic acid H,Aso,         7778-39-4         P010           Arsenic pentoxide         Arsenic oxide As,O.         1303-28-2         P011           Arsenic trioxide         Arsenic oxide As,O.         1327-53-3         P012           Auramine         Benzenamine, 4,4'- carbonimidoylbis[N,N-dimethyl]         492-80-8         U014           Azaserine         L-Serine, diazoacetate (ester)         115-02-6         U015           Barban         Carbamic acid, (3-chlorophenyl) - 4-chloro-2-butynyl ester         101-27-9         U280           Barium         Same         7440-39-3            Barium cyanide         Same         542-62-1         P013           Bendiocarb         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate         22781-23-3         U278           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate         22961-82-6         U364           Benomyl         Carbamic acid, [1-[(butylamino) carbonyl]-, methyl carbamate         17804-35-2         U271           Benz(alpathracene         Same         256-55-3         U018           Benz(alpathracene	Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
Arsenic acid Arsenic acid HASO, 7778-39-4 P010  Arsenic pentoxide Arsenic oxide AsO, 1303-28-2 P011  Arsenic trioxide Arsenic oxide AsO, 1327-53-3 P012  Auramine Benzenamine, 4,4'- carbonimidoylbis[N,N-dimethyl 492-80-8 U014  Azaserine L-Serine, diazoacetate (ester) 115-02-6 U015  Barban Carbamic acid, (3-chlorophenyl) -, 4-chloro-2-butynyl sater  Barium Same 7440-39-3  Barium compounds, N.O.S.  Barium cyanide Same 542-62-1 P013  Bendiocarb 1,3-Benzodioxol-4-ol, 2,2- dimethyl-, methyl carbamate 22781-23-3 U278  Bendiocarb phenol 1,3-Benzodioxol-4-ol, 2,2- dimethyl-,  Benz[c]acridine Same 225-51-4 U016  Benz[c]acridine Same 256-55-3 U018  Benz[a]anthracene Same 56-55-3 U018  Benzene Same 71-43-2 U019  Benzidine [1.1'-Biphenyl]-4,41-diamine 92-87-5 U021  Benz[f]fluoranthene Same 50-32-8 U022  Benzoliphrene Same 50-32-8 U022  Benzoliphrene Same 50-32-8 U022  Benzoliphrene Same 7440-41-7 P015  Benzyl chloride Benzene, (trichloromethyl) 98-07-7 U023  Benzyl chloride Benzene, (chloromethyl) 100-44-7 P028  Beryllium powder Same 7440-41-7 P015  Beryllium compounds, N.O.S. 100-44-7 P015  Beryllium compounds, N.O.S. 100-44-7 P015	Arsenic	Same		
Arsenic pentoxide				
Arsenic trioxide         Arsenic oxide As.O.         1327-53-3         P012           Auramine         Benzenamine, 4,4'- carbonimidoylbis[N,N-dimethyl]         492-80-8         U014           Azaserine         L-Serine, diazoacetate (ester)         115-02-6         U015           Barban         Carbamic acid, (3-chlorophenyl)         101-27-9         U280           Barium         Same         7440-39-3            Barium compounds, N.O.S.'              Barium cyanide         Same         542-62-1         P013           Bendiocarb         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate         22781-23-3         U278           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate         22961-82-6         U364           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate         22961-82-6         U364           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl-carbamate         225-61-2         U271           Benzel phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-         22961-82-6         U364           Benzel phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-         22961-82-6         U371           Benzel phenol         1,4-Benzindadol-2-yil-dimethyl- <td< td=""><td>Arsenic acid</td><td>Arsenic acid H,AsO,</td><td>7778-39-4</td><td>P010</td></td<>	Arsenic acid	Arsenic acid H,AsO,	7778-39-4	P010
Auramine         Benzenamine, 4,4'- carbonimidoylbis(N,N-dimethyl)         492-80-8         U014           Azaserine         L-Serine, diazoacetate (ester)         115-02-6         U015           Barban         Carbamic acid, (3-chlorophenyl) -, 4-chloro-2-butynyl ester         101-27-9         U280           Barium         Same         7440-39-3            Barium compounds, N.O.S.*              Barium cyanide         Same         542-62-1         F013           Bendiocarb         1,3-Benzodioxol-4-ol, 2,2- dimethyl-, methyl carbamate         22781-23-3         U278           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2- dimethyl-, methyl carbamate         22961-82-6         U364           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2- dimethyl-, methyl carbamate         22781-23-3         U278           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2- dimethyl-, methyl carbamate         22961-82-6         U364           Benzel glacridine         Same         225-51-4         U016           Benz[clacridine         Same         225-51-4         U016           Benz[clacridine         Same         56-55-3         U018           Benz[clacridine         Benz[clacridine         Benzel glacephenyl         98-87-3	Arsenic pentoxide	Arsenic oxide As,Os	1303-28-2	P011
Azaserine         L-Serine, diazoacetate (ester)         115-02-6         U015           Barban         Carbamic acid, (3-chlorophenyl) -, 4-chloro-2-butynyl ester         101-27-9         U280 -, 4-chloro-2-butynyl ester           Barium         Same         7440-39-3            Barium compounds, N.O.S.*             Barium cyanide         Same         542-62-1         P013           Bendiocarb         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate         22781-23-3         U278           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-,         22961-82-6         U364           Benomyl         Carbamic acid, [1-(butylamino) carbonyl]- 1H-benzimidazol-2-yll-, methyl ester.         17804-35-2         U271           Benz[c]acridine         Same         225-51-4         U016           Benz[a]anthracene         Same         225-51-4         U016           Benz[a]anthracene         Same         71-43-2         U017           Benzene         56-55-3         U018           Benzene         56-55-3         U017           Benzene         56-55-3         U017           Benzene         56-55-3         U017           Benzene         50-55-3         U019	Arsenic trioxide	Arsenic oxide As,O,	1327-53-3	P012
Barban   Carbamic acid, (3-chloropheny1)	Auramine		492-80-8	U014
Barium	Azaserine	L-Serine, diazoacetate (ester)	115-02-6	U015
Barium compounds, N.O.S.   Same	Barban		101-27-9	U280
Barium cyanide         Same         542-62-1         P013           Bendiocarb         1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate         22781-23-3         U278           Bendiocarb phenol         1,3-Benzodioxol-4-ol, 2,2-dimethyl-,         22961-82-6         U364           Benomyl         Carbamic acid, [1-[(butylamino) carbonyl]- 1H-benzimidazol-2-yl)-, methyl ester.         17804-35-2         U271           Benz[c]acridine         Same         225-51-4         U016           Benz[a]anthracene         Same         56-55-3         U018           Benzal chloride         Benzene, (dichloromethyl)-         98-87-3         U017           Benzene         Same         71-43-2         U019           Benzenearsonic acid         Arsonic acid, phenyl-         98-05-5            Benzidine         [1,1'-Biphenyl]-4,41-diamine         92-87-5         U021           Benzo[b]fluoranthene         Benz[e]acephenanthrylene         205-99-2            Benzo[j]fluoranthene         Same         205-82-3            Benzo[a]pyrene         Same         50-32-8         U022           p-Benzoquinone         2,5-Cyclohexadiene-1,4-dione         106-51-4         U197           Benzyl chloride         Benzene, (chloromethyl)-	Barium	Same	7440-39-3	
Bendiocarb   1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate   22781-23-3   U278	Barium compounds,			
Bendiocarb phenol	Barium cyanide	Same	542-62-1	P013
Benomyl   Carbamic acid, [1-[(butylamino) carbonyl]- 1H-benzimidazol-2- yl] -, methyl ester.   225-51-4   U016	Bendiocarb		22781-23-3	U278
Carbonyl] - 1H-benzimidazol - 2- yl] - , methyl ester.	Bendiocarb phenol		22961-82-6	U364
Benz[a]anthracene         Same         56-55-3         U018           Benzal chloride         Benzene, (dichloromethyl)-         98-87-3         U017           Benzene         Same         71-43-2         U019           Benzenearsonic acid         Arsonic acid, phenyl-         98-05-5            Benzidine         [1,1'-Biphenyl]-4,41-diamine         92-87-5         U021           Benzo[b]fluoranthene         Benz[e]acephenanthrylene         205-99-2            Benzo[j]fluoranthene         Same         205-82-3            Benzo[a]pyrene         Same         50-32-8         U022           p-Benzoquinone         2,5-Cyclohexadiene-1,4-dione         106-51-4         U197           Benzotrichloride         Benzene, (trichloromethyl)-         98-07-7         U023           Benzyl chloride         Benzene, (chloromethyl)-         100-44-7         P028           Beryllium powder         Same         7440-41-7         P015           Beryllium compounds, N.O.S.¹             Bis (penta-methylene)- thiuram tetrasulfide.         Piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis-         120-54-7	Benomyl	carbonyl]- 1H-benzimidazol-2-	17804-35-2	U271
Benzal chloride         Benzene, (dichloromethyl)-         98-87-3         U017           Benzene         Same         71-43-2         U019           Benzenearsonic acid         Arsonic acid, phenyl-         98-05-5            Benzidine         [1,1'-Biphenyl]-4,41-diamine         92-87-5         U021           Benzo[b]fluoranthene         Benz[e]acephenanthrylene         205-99-2            Benzo[j]fluoranthene         Same         205-82-3            Benzo[a]pyrene         Same         50-32-8         U022           p-Benzoquinone         2,5-Cyclohexadiene-1,4-dione         106-51-4         U197           Benzotrichloride         Benzene, (trichloromethyl)-         98-07-7         U023           Benzyl chloride         Benzene, (chloromethyl)-         100-44-7         P028           Beryllium powder         Same         7440-41-7         P015           Beryllium compounds, N.O.S.¹              Bis (penta-methylene)- thiuram tetrasulfide.         Piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis-         120-54-7	Benz[c]acridine	Same	225-51-4	U016
Benzene Same 71-43-2 U019  Benzenearsonic acid Arsonic acid, phenyl- 98-05-5  Benzidine [1,1'-Biphenyl]-4,41-diamine 92-87-5 U021  Benzo[b]fluoranthene Benz[e]acephenanthrylene 205-99-2  Benzo[j]fluoranthene Same 205-82-3  Benzo[a]pyrene Same 50-32-8 U022  p-Benzoquinone 2,5-Cyclohexadiene-1,4-dione 106-51-4 U197  Benzotrichloride Benzene, (trichloromethyl)- 98-07-7 U023  Benzyl chloride Benzene, (chloromethyl)- 100-44-7 P028  Beryllium powder Same 7440-41-7 P015  Beryllium compounds, N.O.S.¹  Bis (penta-methylene)- Piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis-	Benz[a]anthracene	Same	56-55-3	U018
Benzenearsonic acid Arsonic acid, phenyl-  Benzidine [1,1'-Biphenyl]-4,41-diamine 92-87-5 U021  Benzo[b]fluoranthene Benz[e]acephenanthrylene 205-99-2  Benzo[j]fluoranthene Same 205-82-3  Benzo[a]pyrene Same 50-32-8 U022  p-Benzoquinone 2,5-Cyclohexadiene-1,4-dione 106-51-4 U197  Benzotrichloride Benzene, (trichloromethyl)- 98-07-7 U023  Benzyl chloride Benzene, (chloromethyl)- 100-44-7 P028  Beryllium powder Same 7440-41-7 P015  Beryllium compounds, N.O.S.¹  Bis (penta-methylene)- piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis-	Benzal chloride	Benzene, (dichloromethyl)-	98-87-3	U017
Benzidine[1,1'-Biphenyl]-4,41-diamine92-87-5U021Benzo[b]fluorantheneBenz[e]acephenanthrylene205-99-2Benzo[j]fluorantheneSame205-82-3Benzo[a]pyreneSame50-32-8U022p-Benzoquinone2,5-Cyclohexadiene-1,4-dione106-51-4U197BenzotrichlorideBenzene, (trichloromethyl)-98-07-7U023Benzyl chlorideBenzene, (chloromethyl)-100-44-7P028Beryllium powderSame7440-41-7P015Beryllium compounds, N.O.S.¹	Benzene	Same	71-43-2	U019
Benzo[b]fluorantheneBenz[e]acephenanthrylene205-99-2Benzo[j]fluorantheneSame205-82-3Benzo[a]pyreneSame50-32-8U022p-Benzoquinone2,5-Cyclohexadiene-1,4-dione106-51-4U197BenzotrichlorideBenzene, (trichloromethyl)-98-07-7U023Benzyl chlorideBenzene, (chloromethyl)-100-44-7P028Beryllium powderSame7440-41-7P015Beryllium compounds, N.O.S.¹Bis (penta-methylene)- thiuram tetrasulfide.Piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis-120-54-7	Benzenearsonic acid	Arsonic acid, phenyl-	98-05-5	
Benzo[j]fluorantheneSame205-82-3Benzo[a]pyreneSame50-32-8U022p-Benzoquinone2,5-Cyclohexadiene-1,4-dione106-51-4U197BenzotrichlorideBenzene, (trichloromethyl)-98-07-7U023Benzyl chlorideBenzene, (chloromethyl)-100-44-7P028Beryllium powderSame7440-41-7P015Beryllium compounds, N.O.S.¹	Benzidine	[1,1'-Biphenyl]-4,41-diamine	92-87-5	U021
Benzo[a]pyreneSame50-32-8U022p-Benzoquinone2,5-Cyclohexadiene-1,4-dione106-51-4U197BenzotrichlorideBenzene, (trichloromethyl)-98-07-7U023Benzyl chlorideBenzene, (chloromethyl)-100-44-7P028Beryllium powderSame7440-41-7P015Beryllium compounds, N.O.S.¹	Benzo[b]fluoranthene	Benz[e]acephenanthrylene	205-99-2	
p-Benzoquinone 2,5-Cyclohexadiene-1,4-dione 106-51-4 U197  Benzotrichloride Benzene, (trichloromethyl)- 98-07-7 U023  Benzyl chloride Benzene, (chloromethyl)- 100-44-7 P028  Beryllium powder Same 7440-41-7 P015  Beryllium compounds, N.O.S.¹  Bis (penta-methylene)- Piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis- 120-54-7	Benzo[j]fluoranthene	Same	205-82-3	
Benzotrichloride Benzene, (trichloromethyl) - 98-07-7 U023  Benzyl chloride Benzene, (chloromethyl) - 100-44-7 P028  Beryllium powder Same 7440-41-7 P015  Beryllium compounds, N.O.S.¹	Benzo[a]pyrene	Same	50-32-8	U022
Benzyl chlorideBenzene, (chloromethyl) -100-44-7P028Beryllium powderSame7440-41-7P015Beryllium compounds, N.O.S.¹	p-Benzoquinone	2,5-Cyclohexadiene-1,4-dione	106-51-4	U197
Beryllium powder  Same  7440-41-7  P015  Beryllium compounds, N.O.S.¹  Bis (penta-methylene)- thiuram tetrasulfide.  Piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis-	Benzotrichloride	Benzene, (trichloromethyl)-	98-07-7	U023
Beryllium compounds, N.O.S.¹	Benzyl chloride	Benzene, (chloromethyl)-	100-44-7	P028
N.O.S.¹  Bis (penta-methylene)- thiuram tetrasulfide. Piperidine, 1,1'- (tetrathiodicarbonothioyl)-bis-  120-54-7	Beryllium powder	Same	7440-41-7	P015
thiuram tetrasulfide. (tetrathiodicarbonothioyl)-bis-	Beryllium compounds, N.O.S.			
Bromoacetone 2-Propanone, 1-bromo- 598-31-2 P017			120-54-7	
	Bromoacetone	2-Propanone, 1-bromo-	598-31-2	P017

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Bromoform	Methane, tribromo-	75-25-2	U225
4-Bromophenyl phenyl ether	Benzene, 1-bromo-4-phenoxy-	101-55-3	U030
Brucine	Strychnidin-10-one, 2,3-dimethoxy-	357-57-3	P018
Butylate	Carbamothioic acid, bis (2-methylpropyl)-, S-ethyl ester	2008-41-5	
Butyl benzyl phthalate	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester	85-68-7	
Cacodylic acid	Arsinic acid, dimethyl-	75-60-5	U136
Cadmium	Same	7440-43-9	
Cadmium compounds, N.O.S.1			
Calcium chromate	Chromic acid H2CrO4, calcium salt	13765-19-0	U032
Calcium cyanide	Calcium cyanide Ca(CN)2	592-01-8	P021
Carbaryl	1-Naphthalenol, methylcarbamate	63-25-2	U279
Carbendazim	Carbamic acid, 1H-benzimidazol- 2-yl, methyl ester	10605-21-7	U372
Carbofuran	7-Benzofuranol, 2,3-dihydro- 2,2-dimethyl-, methylcarbamate	1563-66-2	P127
Carbofuran phenol	7-Benzofuranol, 2,3-dihydro- 2,2-dimethyl-	1563-38-8	U367
Carbon disulfide	Same	75-15-0	P022
Carbon oxyfluoride	Carbonic difluoride	353-50-4	U033
Carbon tetrachloride	Methane, tetrachloro-	56-23-5	U211
Carbosulfan	Carbamic acid, [(dibutylamino) thio] methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester	55285-14-8	P189
Chloral	Acetaldehyde, trichloro-	75-87-6	U034
Chlorambucil	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	305-03-3	U035
Chlordane	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro- 2,3,3a,4,7,7a-hexahydro-	57-74-9	บ036
Chlordane (alpha and gamma isomers)			U036
Chlorinated benzenes, N.O.S.			
Chlorinated ethane, N.O.S.			
Chlorinated fluorocarbons, N.O.S. <sup>1</sup>			
Chlorinated naphthalene, N.O.S. <sup>1</sup>			

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
Chlorinated phenol, N.O.S.			
Chlornaphazin	Naphthalenamine, N,N'-bis(2-chloroethyl)-	494-03-1	U026
Chloroacet-aldehyde	Acetaldehyde, chloro-	107-20-0	P023
Chloroalkyl ethers, N.O.S.¹			
p-Chloroaniline	Benzenamine, 4-chloro-	106-47-8	P024
Chlorobenzene	Benzene, chloro-	108-90-7	U037
Chlorobenzilate	Benzeneacetic acid, 4-chloro- alpha-(4-chlorophenyl)-alpha- hydroxy-, ethyl ester	510-15-6	U038
p-Chloro-m-cresol	Phenol, 4-chloro-3-methyl-	59-50-7	U039
2-Chloroethyl vinyl ether	Ethene, (2-chloroethoxy)-	110-75-8	U042
Chloroform	Methane, trichloro-	67-66-3	U044
Chloromethyl methyl ether	Methane, chloromethoxy-	107-30-2	U046
beta-Chloronaphtha- lene	Naphthalene, 2-chloro-	91-58-7	U047
o-Chlorophenol	Phenol, 2-chloro-	95-57-8	U048
1-(o-Chlorophenyl)- thiourea	Thiourea, (2-chlorophenyl)-	5344-82-1	P026
Chloroprene	1,3-Butadiene, 2-chloro-	126-99-8	
3-Chloropropio-nitrile	Propanenitrile, 3-chloro-	542-76-7	P027
Chromium	Same	7440-47-3	
Chromium compounds, N.O.S.			
Chrysene	Same	218-01-9	U050
Citrus red No. 2	2-Naphthalenol, 1-[(2,5-dimethoxyphenyl)azo]-	6358-53-8	
Coal tar creosote	Same	8007-45-2	
Copper cyanide	Copper cyanide CuCN	544-92-3	P029
Copper dimethyldithio- carbamate	Copper, bis(dimethylcarbamodithioato- S,S')-,	137-29-1	
Creosote	Same		U051
Cresol (Cresylic acid)	Phenol, methyl-	1319-77-3	U052
Crotonaldehyde	2-Butenal	4170-30-3	U053
m-Cumenyl methylcarbamate	Phenol, 3-(methylethyl)-, methyl carbamate	64-00-6	P202
Cyanides (soluble			P030

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
salts and complexes)			
Cyanogen	Ethanedinitrile	460-19-5	P031
Cyanogen bromide	Cyanogen bromide (CN)Br	506-68-3	U246
Cyanogen chloride	Cyanogen chloride (CN)Cl	506-77-4	P033
Cycasin	<pre>beta-D-Glucopyranoside, (methyl-ONN-azoxy)methyl</pre>	14901-08-7	
Cycloate	Carbamothioic acid, cyclohexylethyl-, S-ethyl ester	1134-23-2	
2-Cyclohexyl-4,6- dinitrophenol	Phenol, 2-cyclohexyl-4,6-dinitro-	131-89-5	P034
Cyclophosph-amide	2H-1,3,2-0xazaphosphorin-2- amine, N,N-bis(2- chloroethyl)tetrahydro-, 2- oxide	50-18-0	U058
2,4-D	Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	U240
2,4-D, salts, esters			U240
Daunomycin	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	20830-81-3	U059
Dazomet	2H-1,3,5-thiadiazine-2-thione, tetrahydro-3,5-dimethyl	533-74-4	
DDD	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	72-54-8	U060
DDE	Benzene, 1,1'- (dichloroethenylidene)bis[4- chloro-	72-55-9	
DDT	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	50-29-3	U061
Diallate	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	2303-16-4	U062
Dibenz[a,h]acridine	Same	226-36-8	
Dibenz[a,j]acridine	Same	224-42-0	
Dibenz[a,h]anthracene	Same	53-70-3	U063
7H- Dibenzo[c,g]carbazole	Same	194-59-2	
Dibenzo[a,e]pyrene	Naphtho[1,2,3,4-def]chrysene	192-65-4	
Dibenzo[a,h]pyrene	Dibenzo[b,def]chrysene	189-64-0	
Dibenzo[a,i]pyrene	Benzo[rst]pentaphene	189-55-9	U064

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
1,2-Dibromo-3- chloropropane	Propane, 1,2-dibromo-3-chloro-	96-12-8	U066
Dibutyl phthalate	1,2-Benzenedicarboxylic acid, dibutyl ester	84-74-2	U069
o-Dichlorobenzene	Benzene, 1,2-dichloro-	95-50-1	U070
m-Dichlorobenzene	Benzene, 1,3-dichloro-	541-73-1	U071
p-Dichlorobenzene	Benzene, 1,4-dichloro-	106-46-7	U072
Dichlorobenzene, N.O.S.	Benzene, dichloro-	25321-22-6	
3,3'-Dichlorobenzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	91-94-1	บ073
1,4-Dichloro-2-butene	2-Butene, 1,4-dichloro-	764-41-0	U074
Dichlorodifluoromethan e	Methane, dichlorodifluoro-	75-71-8	บ075
Dichloroethylene, N.O.S.	Dichloroethylene	25323-30-2	
1,1-Dichloro-ethylene	Ethene, 1,1-dichloro-	75-35-4	U078
1,2-Dichloro-ethylene	Ethene, 1,2-dichlrol-, (E)-	156-60-5	U079
Dichloro-ethyl ether	Ethane, 1,1'oxybis[2-chloro-	111-44-4	U025
Dichloroiso-propyl ether	Propane, 2,2'-oxybis[2-chloro-	108-60-1	U027
Dichloromethoxy ethane	Ethane, 1,1'- [methylenebis(oxy)]bis[2- chloro-	111-91-1	U024
Dichloromethyl ether	Methane, oxybis[chloro-	542-88-1	P016
2,4-Dichlorophenol	Phenol, 2,4-dichloro-	120-83-2	U081
2,6-Dichlorophenol	Phenol, 2,6-dichloro-	87-65-0	U082
Dichlorophenylarsine	Arsonous dichloride, phenyl-	696-28-6	P036
Dichloropropane, N.O.S.1	Propane, dichloro-	26638-19-7	
Dichloropropanol, N.O.S.1	Propanol, dichloro-	26545-73-3	
Dichloropropene, N.O.S.1	1-Propene, dichloro-	26952-23-8	
1,3-Dichloropropene	1-Propene, 1,3-dichloro-	542-75-6	U084
Dieldrin	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-la,2,2a,3,6,6a,7,7a-octahydro-, (laalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)-	60-57-1	₽037
1,2:3,4-Diepoxybutane	2,2'-Bioxirane	1464-53-5	U085
Diethylarsine	Arsine, diethyl-	692-42-2	P038
Diethylene glycol,	Ethanol, 2,2'-oxybis-,	5952-26-1	U395

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
dicarbamate	dicarbamate		
1,4-Diethyleneoxide	1,4-Dioxane	123-91-1	U108
Diethylhexyl phthalate	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	117-81-7	U028
N,N'-Diethylhydrazine	Hydrazine, 1,2-diethyl-	1615-80-1	U086
O,O-Diethyl S-methyl dithiophosphate	Phosphorodithioic acid, 0,0- diethyl S-methyl ester	3288-58-2	U087
Diethyl-p-nitrophenyl phosphate	Phosphoric acid, diethyl 4- nitrophenyl ester	311-45-5	P041
Diethyl phthalate	1,2-Benzenedicarboxylic acid, diethyl ester	84-66-2	U088
0,0-Diethyl 0- pyrazinyl phosphoro- thioate	Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester	297-97-2	P040
Diethylstilbesterol	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-	56-53-1	U089
Dihydrosafrole	1,3-Benzodioxole, 5-propyl-	94-58-6	U090
Diisopropylfluorophosp hate (DFP)	Phosphorofluoridic acid, bis(1-methylethyl) ester	55-91-4	P043
Dimethoate	Phosphorodithioic acid, 0,0-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	60-51-5	P044
3,3'-Dimethoxy- benzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	119-90-4	U091
p- Dimethylaminoazobenzen e	Benzenamine, N,N-dimethyl-4- (phenylazo)-	60-11-7	U093
7,12- Dimethylbenz[a]anthrac ene	Benz[a]anthracene, 7,12-dimethyl-	57-97-6	U094
3,3'-Dimethyl- benzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	119-93-7	U095
Dimethylcarbamoyl chloride	Carbamic chloride, dimethyl-	79-44-7	U097
1,1-Dimethyl-hydrazine	Hydrazine, 1,1-dimethyl-	57-14-7	U098
1,2-Dimethyl-hydrazine	Hydrazine, 1,2-dimethyl-	540-73-8	U099
alpha,alpha- Dimethylphen- ethylamine	Benzeneethanamine, alpha,alpha-dimethyl-	122-09-8	P046
2,4-Dimethylphenol	Phenol, 2,4-dimethyl-	105-67-9	U101
Dimethyl phthalate	1,2-Benzenedicarboxylic acid, dimethyl ester	131-11-3	U102
Dimethyl sulfate	Sulfuric acid, dimethyl ester	77-78-1	U103
Dimetilan	Carbamic acid, dimethyl-, 1- [(dimethylamino) carbonyl]-5- methyl-1H-pyrazol-3-yl ester.	644-64-4	P191

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Dinitrobenzene, N.O.S.1	Benzene, dinitro-	25154-54-5	
4,6-Dinitro-o-cresol	Phenol, 2-methyl-4,6-dinitro-	534-52-1	P047
4,6-Dinitro-o-cresol salts			P047
2,4-Dinitrophenol	Phenol, 2,4-dinitro-	51-28-5	P048
2,4-Dinitrotoluene	Benzene, 1-methyl-2,4-dinitro-	121-14-2	U105
2,6-Dinitrotoluene	Benzene, 2-methyl-1,3-dinitro-	606-20-2	U106
Dinoseb	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	88-85-7	P020
Di-n-octyl phthalate	1,2-Benzenedicarboxylic acid, dioctyl ester	117-84-0	<b>017</b>
Diphenylamine	Benzenamine, N-phenyl-	122-39-4	
1,2-Diphenylhydrazine	Hydrazine, 1,2-diphenyl-	122-66-7	U109
Di-n-propylnitros- amine	1-Propanamine, N-nitroso-N- propyl-	621-64-7	U111
Disulfiram	Thioperoxydicarbonic diamide, tetraethyl	97-77-8	
Disulfoton	Phosphorodithioic acid, 0,0-diethyl S-[2-(ethylthio)ethyl] ester	298-04-4	P039
Dithiobiuret	Thioimidodicarbonic diamide [(H2N)C(S)]2NH	541-53-7	P049
Endosulfan	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-,3-oxide	115-29-7	₽050
Endothall	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	145-73-3	P088
Endrin	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-la,2,2a,3,6,6a,7,7a-octahydro-,(laalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)-	72-20-8	P051
Endrin metabolites			P051
EPTC	Carbamothioic acid, dipropyl-, S-ethyl ester	759-94-4	
Epichlorohydrin	Oxirane, (chloromethyl)-	106-89-8	U041
Epinephrine	1,2-Benzenediol, 4-[1-hydroxy- 2-(methylamino)ethyl]-, (R)-	51-43-4	P042
Ethyl carbamate (urethane)	Carbamic acid, ethyl ester	51-79-6	U238
Ethyl cyanide	Propanenitrile	107-12-0	P101
Ethylenebisdithiocarba mic acid	Carbamodithioic acid, 1,2- ethanediylbis-	111-54-6	U114

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Ethylenebisdithiocarba mic acid, salts and esters			U114
Ethylene dibromide	Ethane, 1,2-dibromo-	106-93-4	U067
Ethylene dichloride	Ethane, 1,2-dichloro-	107-06-2	U077
Ethylene glycol monoethyl ether	Ethanol, 2-ethoxy-	110-80-5	บ359
Ethyleneimine	Aziridine	151-56-4	P054
Ethylene oxide	Oxirane	75-21-8	U115
Ethylene-thiourea	2-Imidazolidinethione	96-45-7	U116
Ethylidene dichloride	Ethane, 1,1-dichloro-	75-34-3	U076
Ethyl methacrylate	2-Propenoic acid, 2-methyl-, ethyl ester	97-63-2	U118
Ethyl methane- sulfonate	Methanesulfonic acid, ethyl ester	62-50-0	U119
Ethyl Ziram	Zinc, bis(diethylcarbamodithioato- S,S')-	14324-55-1	
Famphur	Phosphorothioic acid, O-[4- [(dimethylamino)sulfonyl]phenyl ] O,O-dimethyl ester	52-85-7	P097
Ferbam	<pre>Iron,   tris(dimethylcarbamodithioato-   S,S')-,</pre>	14484-64-1	
Fluoranthene	Same	206-44-0	U120
Fluorine	Same	7782-41-4	P056
Fluoroacetamide	Acetamide, 2-fluoro-	640-19-7	P057
Fluoroacetic acid, sodium salt	Acetic acid, fluoro-, sodium salt	62-74-8	P058
Formaldehyde	Same	50-00-0	U122
Formetanate hydrochloride	Methanimidamide, N,N-dimethyl-N'-[3-[[(methylamino) carbonyl]oxy]phenyl]-, monohydrochloride.	23422-53-9	P198
Formic acid	Same	64-18-6	U123
Formparanate	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]	17702-57-7	P197
Glycidyl-aldehyde	Oxiranecarboxyaldehyde	765-34-4	U126
Halomethanes, N.O.S.1			
Heptachlor	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro-	76-44-8	P059
Heptachlor epoxide	2,5-Methano-2H-indeno[1,2-	1024-57-3	

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
	bloxirene, 2,3,4,5,6,7,7- heptachloro-la,1b,5,5a,6,6a- hexa- hydro-, (laalpha,1bbeta,2alpha,5alpha, 5abeta,6beta,6aalpha)-		
Heptachlor epoxide (alpha, beta, and gamma isomers)			
Heptachlorodibenzofurans.			
Heptachlorodibenzo-p- dioxins			
Hexachlorobenzene	Benzene, hexachloro-	118-74-1	U127
Hexachlorobutadiene	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	87-68-3	U128
Hexachlorocyclopentadi ene	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	77-47-4	U130
Hexachlorodibenzo-p- dioxins			
Hexachlorodibenzofuran s			• • • •
Hexachloro-ethane	Ethane, hexachloro-	67-72-1	U131
Hexachlorophene	Phenol, 2,2'- methylenebis[3,4,6-trichloro-	70-30-4	U132
Hexachloro-propene	1-Propene, 1,1,2,3,3,3- hexachloro-	1888-71-7	U243
Hexaethyl tetraphosphate	Tetraphosphoric acid, hexaethyl ester	757-58-4	P062
Hydrazine	Same	302-01-2	U133
Hydrogen cyanide	Hydrocyanic acid	74-90-8	P063
Hydrogen fluoride	Hydrofluoric acid	7664-39-3	U134
Hydrogen sulfide	Hydrogen sulfide H,S	7783-06-4	U135
<pre>Indeno[1,2,3-cd]pyrene</pre>	Same	193-39-5	U137
3-Iodo-2-propynyl n- butylcarbamate	Carbamic acid, butyl-, 3-iodo- 2-propynyl ester	55406-53-6	
Isobutyl alcohol	1-Propanol, 2-methyl-	78-83-1	U140
Isodrin	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro- 1,4,4a,5,8,8a- hexahydro,(1alpha,4alpha,4abeta,5beta,8beta,-8abeta) -	465-73-6	P060
Isolan	Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester	119-38-0	P192
Isosafrole	1,3-Benzodioxole, 5-(1- propenyl)-	120-58-1	U141
Kepone	1,3,4-Metheno-2H-	143-50-0	U142

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Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
	<pre>cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6- decachlorooctahydro-</pre>		
Lasiocarpine	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-yl ester, [1S- [1alpha(Z),7(2S*,3R*),7aalpha]] -	303-34-1	4143
Lead	Same	7439-92-1	
Lead compounds, N.O.S.			
Lead acetate	Acetic acid, lead(2+) salt	301-04-2	U144
Lead phosphate	Phosphoric acid, lead(2+) salt (2:3)	7446-27-7	U145
Lead subacetate	Lead, bis(acetato- O)tetrahydroxytri-	1335-32-6	U146
Lindane	Cyclohexane, 1,2,3,4,5,6- hexachloro-, (1alpha,2alpha,3beta,4alpha,5al pha,6beta)-	58-89-9	U129
Maleic anhydride	2,5-Furandione	108-31-6	U147
Maleic hydrazide	3,6-Pyridazinedione, 1,2- dihydro-	123-33-1	U148
Malononitrile	Propanedinitrile	109-77-3	U149
Manganese dimethyldithiocarbamat e	<pre>Manganese, bis(dimethylcarbamodithioato- S,S')-,</pre>	15339-36-3	P196
Melphalan	L-Phenylalanine, 4-[bis(2-chloroethyl)aminol]-	148-82-3	U150
Mercury	Same	7439-97-6	U151
Mercury compounds, N.O.S.			
Mercury fulminate	Fulminic acid, mercury(2+) salt	628-86-4	P065
Metam Sodium	Carbamodithioic acid, methyl-, monosodium salt	137-42-8	
Methacrylo-nitrile	2-Propenenitrile, 2-methyl-	126-98-7	U152
Methapyrilene	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	91-80-5	U155
Methiocarb	Phenol, (3,5-dimethyl-4- (methylthio)-, methylcarbamate	2032-65-7	P199
Methomyl	Ethanimidothioic acid, N- [[(methylamino)carbonyl]oxy]-, methyl ester	16752-77-5	P066
Methoxychlor	Benzene, 1,1'-(2,2,2- trichloroethylidene)bis[4- methoxy-	72-43-5	U247

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Methyl bromide	Methane, bromo-	74-83-9	U029
Methyl chloride	Methane, chloro-	74-87-3	U045
Methyl chlorocarbonate	Carbonochloridic acid, methyl ester	79-22-1	U156
Methyl chloroform	Ethane, 1,1,1-trichloro-	71-55-6	U226
3-Methylchol-anthrene	Benz[j]aceanthrylene, 1,2- dihydro-3-methyl-	56-49-5	U157
4,4'-Methylenebis (2- chloroaniline)	Benzenamine, 4,4'- methylenebis[2-chloro-	101-14-4	U158
Methylene bromide	Methane, dibromo-	74-95-3	U068
Methylene chloride	Methane, dichloro-	75-09-2	U080
Methyl ethyl ketone (MEK)	2-Butanone	78-93-3	U159
Methyl ethyl ketone peroxide	2-Butanone, peroxide	1338-23-4	U160
Methyl hydrazine	Hydrazine, methyl-	60-34-4	P068
Methyl iodide	Methane, iodo-	74-88-4	U138
Methyl isocyanate	Methane, isocyanato-	624-83-9	P064
2-Methyllacto-nitrile	Propanenitrile, 2-hydroxy-2-methyl-	75-86-5	P069
Methyl methacrylate	2-Propenoic acid, 2-methyl-, methyl ester	80-62-6	U162
Methyl methane- sulfonate	Methanesulfonic acid, methyl ester	66-27-3	
Methyl parathion	Phosphorothioic acid, 0,0-dimethyl 0-(4-nitrophenyl) ester	298-00-0	P071
Methylthiouracil	4(1H)-Pyrimidinone, 2,3- dihydro-6-methyl-2-thioxo-	56-04-2	U164
Metolcarb	Carbamic acid, methyl-, 3- methylphenyl ester	1129-41-5	P190
Mexacarbate	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)	315-18-4	P128
Mitomycin C	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-methyl-,[1aS-(1aalpha,8beta,8aalpha,8balpha)]	50-07-7	U010
MNNG	Guanidine, N-methyl-N'-nitro-N- nitroso-	70-25-7	U163
Molinate	1H-Azepine-1-carbothioic acid, hexahydro-, S-ethyl ester	2212-67-1	
Mustard gas	Ethane, 1,1'-thiobis[2-chloro-	505-60-2	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Naphthalene	Same	91-20-3	U165
1,4-Naphthoquinone	1,4-Naphthalenedione	130-15-4	U166
alpha-Naphthylamine	1-Naphthalenamine	134-32-7	U167
beta-Naphthylamine	2-Naphthalenamine	91-59-8	U168
alpha-Naphthylthiourea	Thiourea, 1-naphthalenyl-	86-88-4	P072
Nickel	Same	7440-02-0	
Nickel compounds, N.O.S.			
Nickel carbonyl	Nickel carbonyl Ni(CO)4, (T-4)-	13463-39-3	P073
Nickel cyanide	Nickel cyanide Ni(CN)2	557-19-7	P074
Nicotine	Pyridine, 3-(1-methyl-2- pyrrolidinyl)-, (S)-	54-11-5	₽075
Nicotine salts			P075
Nitric oxide	Nitrogen oxide NO	10102-43-9	P076
p-Nitroaniline	Benzenamine, 4-nitro-	100-01-6	P077
Nitrobenzene	Benzene, nitro-	98-95-3	U169
Nitrogen dioxide	Nitrogen oxide NO2	10102-44-0	P078
Nitrogen mustard	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-	51-75-2	
Nitrogen mustard, hydro-chloride salt			
Nitrogen mustard N- oxide	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-, N-oxide	126-85-2	• • • •
Nitrogen mustard, N- oxide, hydrochloride salt			
Nitroglycerin	1,2,3-Propanetriol, trinitrate	55-63-0	P081
p-Nitrophenol	Phenol, 4-nitro-	100-02-7	U170
2-Nitropropane	Propane, 2-nitro-	79-46-9	บ171
Nitrosamines, N.O.S.		35576-91- 1D	
N-Nitrosodi-n- butylamine	1-Butanamine, N-butyl-N- nitroso-	924-16-3	บ172
N- Nitrosodiethanolamine	Ethanol, 2,2'- (nitrosoimino)bis-	1116-54-7	บ173
N-Nitrosodiethylamine	Ethanamine, N-ethyl-N-nitroso-	55-18-5	U174
N-Nitrosodimethylamine	Methanamine, N-methyl-N- nitroso-	62-75-9	P082
N-Nitroso-N-ethylurea	Urea, N-ethyl-N-nitroso-	759-73-9	U176
N- Nitrosomethylethylamin	Ethanamine, N-methyl-N-nitroso-	10595-95-6	

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
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N-Nitroso-N-methylurea	Urea, N-methyl-N-nitroso-	684-93-5	บ177
N-Nitroso-N- methylurethane	Carbamic acid, methylnitroso-, ethyl ester	615-53-2	บ178
N-Nitrosomethyl- vinylamine	Vinylamine, N-methyl-N-nitroso-	4549-40-0	P084
N-Nitroso-morpholine	Morpholine, 4-nitroso-	59-89-2	
N-Nitrosonor-nicotine	Pyridine, 3-(1-nitroso-2- pyrrolidinyl)-, (S)-	16543-55-8	
N-Nitroso-piperidine	Piperidine, 1-nitroso-	100-75-4	U179
N-Nitroso-pyrrolidine	Pyrrolidine, 1-nitroso-	930-55-2	U180
N-Nitroso-sarcosine	Glycine, N-methyl-N-nitroso-	13256-22-9	
5-Nitro-o-toluidine	Benzenamine, 2-methyl-5-nitro-	99-55-8	U181
Octachloro-dibenzo-p- dioxin (OCDD)	1,2,3,4,6,7,8,9- Octachlorodibenzo-p-dioxin	3268-87-9	
Octachloro- dibenzofuran (OCDF)	1,2,3,4,6,7,8,9- Octachlorodibenzofuran	39001-02-0	
Octamethylpyro-phos- phoramide	Diphosphoramide, octamethyl-	152-16-9	P085
Osmium tetroxide	Osmium oxide OsO <sub>4</sub> , (T-4)-	20816-12-0	P087
Oxamyl	Ethanimidothioc acid, 2- (dimethylamino)-N- [[(methylamino)carbonyl]oxy]-2- oxo-, methyl ester.	23135-22-0	P194
Paraldehyde	1,3,5-Trioxane, 2,4,6- trimethyl-	123-63-7	U182
Parathion	Phosphorothioic acid, 0,0- diethyl 0-(4-nitrophenyl) ester	56-38-2	P089
Pebulate	Carbamothioic acid, butylethyl- , S-propyl ester	1114-71-2	• • • • •
Pentachlorobenzene	Benzene, pentachloro-	608-93-5	U183
Pentachloro-dibenzo-p- dioxins			
Pentachlorodibenzofura ns			
Pentachloro-ethane	Ethane, pentachloro-	76-01-7	U184
Pentachloro- nitrobenzene (PCNB)	Benzene, pentachloronitro-	82-68-8	U185
Pentachloro-phenol	Phenol, pentachloro-	87-86-5	See F027
Phenacetin	Acetamide, N-(4-ethoxyphenyl)-	62-44-2	U187
Phenol	Same	108-95-2	U188
Phenylene-diamine	Benzenediamine	25265-76-3	
Phenylmercury acetate	Mercury, (acetato-0)phenyl-	62-38-4	P092

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
Phenylthiourea	Thiourea, phenyl-	103-85-5	P093
Phosgene	Carbonic dichloride	75-44-5	P095
Phosphine	Same	7803-51-2	P096
Phorate	Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl] ester	298-02-2	P094
Phthalic acid esters, N.O.S.			
Phthalic anhydride	1,3-Isobenzofurandione	85-44-9	U190
Physostigmine	Pyrrolo[2,3-b]indol-5-01, 1,2,3,3a,8,8a-hexahydro-1,3a,8- trimethyl-, methylcarbamate (ester), (3aS-cis)	57-47-6	P204
Physostigmine salicylate	Benzoic acid, 2-hydroxy-, cmpd. with (3aS-cis) -1,2,3,3a,8,8a-hexahydro- 1,3a,8-trimethylpyrrolo [2,3-b]indol-5-yl methylcarbamate ester (1:1).	57-64-7	P188
2-Picoline	Pyridine, 2-methyl-	109-06-8	U191
Polychlorinated biphenyls, N.O.S. <sup>1</sup>			
Potassium cyanide	Potassium cyanide K(CN)	151-50-8	P098
Potassium dimethyldithio- carbamate	Carbamodithioic acid, dimethyl, potassium salt	128-03-0	
Potassium n-hydroxymethyl-n-meth yl- dithiocarbamate	Carbamodithioic acid, (hydroxymethyl)methyl-, monopotassium salt	51026-28-9	
Potassium n-methyl- dithio-carbamate	Carbamodithioic acid, methyl- monopotassium salt	137-41-7	
Potassium pentachloro- phenate	Pentachlorophenol, potassium salt	7778736	None
Potassium silver cyanide	Argentate(1-), bis(cyano-C)-, potassium	506-61-6	P099
Promecarb	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate	2631-37-0	P201
Pronamide	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	23950-58-5	U192
1,3-Propane sultone	1,2-0xathiolane, 2,2-dioxide	1120-71-4	U193
Propham	Carbamic acid, phenyl-, 1- methylethyl ester	122-42-9	U373
n-Propylamine	1-Propanamine	107-10-8	U194
Propargyl alcohol	2-Propyn-1-ol	107-19-7	P102
Propoxur	Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	U411
Propylene dichloride	Propane, 1,2-dichloro-	78-87-5	U083

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
1,2-Propylenimine	Aziridine, 2-methyl-	75-55-8	P067
Propylthio-uracil	4(1H)-Pyrimidinone, 2,3- dihydro-6-propyl-2-thioxo-	51-52-5	
Prosulfocarb	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9	บ387
Pyridine	Same	110-86-1	U196
Reserpine	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5- trimethoxybenzoyl)oxy]-smethyl ester, (3beta,16beta,17alpha,18beta,20 alpha)-	50-55-5	U200
Resorcinol	1,3-Benzenediol	108-46-3	U201
Saccharin	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide	81-07-2	U202
Saccharin salts			U202
Safrole	1,3-Benzodioxole, 5-(2- propenyl)-	94-59-7	U203
Selenium	Same	7782-49-2	
Selenium compounds, N.O.S.			
Selenium dioxide	Selenious acid	7783-00-8	U204
Selenium sulfide	Selenium sulfide SeS2	7488-56-4	U205
Selenium tetrakis (dimethyl-dithio- carbamate)	Carbamodithioic acid, dimethyl- , tetraanhydrosulfide with orthothioselenious acid.	144-34-3	
Selenourea	Same	630-10-4	P103
Silver	Same	7440-22-4	
Silver compounds, N.O.S.			
Silver cyanide	Silver cyanide Ag(CN)	506-64-9	P104
Silvex (2,4,5-TP)	Propanoic acid, 2-(2,4,5- trichlorophenoxy)-	93-72-1	See F027
Sodium cyanide	Sodium cyanide Na(CN)	143-33-9	P106
Sodium dibutyldithio- carbamate	Carbamodithioic acid, dibutyl, sodium salt	136-30-1	
Sodium diethyldithio- carbamate	Carbamodithioic acid, diethyl-, sodium salt	148-18-5	
Sodium dimethyldithiocarbamat e	Carbamodithioic acid, dimethyl- , sodium salt	128-04-1	
Sodium pentachlorophenate	Pentachlorophenol, sodium salt	131522	None
Streptozotocin	D-Glucose, 2-deoxy-2- [[(methylnitrosoamino)carbonyl]	18883-66-4	U206

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
	-amino]-		
Strychnine	Strychnidin-10-one	57-24-9	P108
Strychnine salts			P108
Sulfallate	Carbamodithioic acid, diethyl-, 2-chloro-2-propenyl ester	95-06-7	
TCDD	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-	1746-01-6	
Tetrabutyl-thiuram disulfide	Thioperoxydicarbonic diamide, tetrabutyl	1634-02-2	
Tetramethyl-thiuram monosulfide	Bis(dimethylthiocarbamoyl) sulfide	97-74-5	
1,2,4,5-Tetrachloro- benzene	Benzene, 1,2,4,5-tetrachloro-	95-94-3	บ207
Tetrachloro-dibenzo-p- dioxins			
Tetrachlorodibenzofura ns			
Tetrachloro-ethane,	Ethane, tetrachloro-, N.O.S.	25322-20-7	
1,1,1,2-Tetrachloro- ethane	Ethane, 1,1,1,2-tetrachloro-	630-20-6	U208
1,1,2,2-Tetrachloro- ethane	Ethane, 1,1,2,2-tetrachloro-	79-34-5	U209
Tetrachloro-ethylene	Ethene, tetrachloro-	127-18-4	U210
2,3,4,6-Tetrachloro- phenol	Phenol, 2,3,4,6-tetrachloro-	58-90-2	See F027
2,3,4,6-tetrachloro- phenol, potassium salt	same	53535276	None
2,3,4,6-tetrachloro- phenol, sodium salt	same	25567559	None
Tetraethyl- dithiopyrophos-phate	Thiodiphosphoric acid, tetraethyl ester	3689-24-5	P109
Tetraethyl lead	Plumbane, tetraethyl-	78-00-2	P110
Tetraethyl pyrophosphate	Diphosphoric acid, tetraethyl ester	107-49-3	P111
Tetranitromethane	Methane, tetranitro-	509-14-8	P112
Thallium	Same	7440-28-0	
Thallium compounds, N.O.S.			
Thallic oxide	Thallium oxide Tl <sub>2</sub> O <sub>2</sub>	1314-32-5	P113
Thallium(I) acetate	Acetic acid, thallium(1+) salt	563-68-8	U214
Thallium(I) carbonate	Carbonic acid, dithallium(1+) salt	6533-73-9	U215
Thallium(I) chloride	Thallium chloride TlCl	7791-12-0	U216

Common name	Chemical abstracts name	Chemical abstracts	Hazardous waste No.
Thallium(I) nitrate	Nitric acid, thallium(1+) salt	10102-45-1	U217
Thallium selenite	Selenious acid, dithallium(1+) salt	12039-52-0	P114
Thallium(I) sulfate	Sulfuric acid, dithallium(1+) salt	7446-18-6	P115
Thioacetamide	Ethanethioamide	62-55-5	U218
Thiodicarb	Ethanimidothioic acid, N,N' [thiobis [(methylimino) carbonyloxy]] bis-, dimethyl ester.	59669-26-0	U410
Thiofanox	2-Butanone, 3,3-dimethyl-1- (methylthio)-, 0- [(methylamino)carbonyl] oxime	39196-18-4	P045
Thiomethanol	Methanethiol	74-93-1	U153
Thiophanate-methyl	Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)] [bis-, dimethyl ester	23564-05-8	U409
Thiophenol	Benzenethiol	108-98-5	P014
Thiosemi-carbazide	Hydrazinecarbothioamide	79-19-6	P116
Thiourea	Same	62-56-6	U219
Thiram	Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-	137-26-8	U244
Tirpate	1,3-Dithiolane-2- carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime.	26419-73-8	P185
Toluene	Benzene, methyl-	108-88-3	U220
Toluenediamine	Benzenediamine, ar-methyl-	25376-45-8	U221
Toluene-2,4-diamine	1,3-Benzenediamine, 4-methyl-	95-80-7	
Toluene-2,6-diamine	1,3-Benzenediamine, 2-methyl-	823-40-5	
Toluene-3,4-diamine	1,2-Benzenediamine, 4-methyl-	496-72-0	
Toluene diisocyanate	Benzene, 1,3- diisocyanatomethyl-	26471-62-5	U223
o-Toluidine	Benzenamine, 2-methyl-	95-53-4	U328
o-Toluidine hydrochloride	Benzenamine, 2-methyl-, hydrochloride	636-21-5	U222
p-Toluidine	Benzenamine, 4-methyl-	106-49-0	U353
Toxaphene	Same	8001-35-2	P123
Triallate	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester	2303-17-5	U389
1,2,4-Trichloro- benzene	Benzene, 1,2,4-trichloro-	120-82-1	
1,1,2-Trichloroethane	Ethane, 1,1,2-trichloro-	79-00-5	U227

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Trichloro-ethylene	Ethene, trichloro-	79-01-6	U228
Trichloro-methanethiol	Methanethiol, trichloro-	75-70-7	P118
Trichloromono- fluoromethane	Methane, trichlorofluoro-	75-69-4	U121
2,4,5-Trichlorophenol	Phenol, 2,4,5-trichloro-	95-95-4	See F027
2,4,6-Trichlorophenol	Phenol, 2,4,6-trichloro-	88-06-2	See F027
2,4,5-T	Acetic acid, (2,4,5- trichlorophenoxy)-	93-76-5	See F027
Trichloro-propane,		25735-29-9	
1,2,3-Trichloro- propane	Propane, 1,2,3-trichloro-	96-18-4	
Triethylamine	Ethanamine, N,N-diethyl-	121-44-8	U404
0,0,0-Triethyl phosphoro-thioate	Phosphorothioic acid, 0,0,0-triethyl ester	126-68-1	
1,3,5-Trinitrobenzene	Benzene, 1,3,5-trinitro-	99-35-4	U234
Tris(1-aziridinyl)- phosphine sulfide	Aziridine, 1,1',1"- phosphinothioylidynetris-	52-24-4	
Tris(2,3-dibromopropyl) phosphate	1-Propanol, 2,3-dibromo-, phosphate (3:1)	126-72-7	U235
Trypan blue	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'- biphenyl]-4,4'diyl)bis(azo)]- bis[5-amino-4-hydroxy-, tetrasodium salt	72-57-1	U236
Uracil mustard	2,4-(1H,3H)-Pyrimidinedione, 5- [bis(2-chloroethyl)amino]-	66-75-1	U237
Vanadium pentoxide	Vanadium oxide V205	1314-62-1	P120
Vernolate	Carbamothioic acid, dipropyl-, S-propyl ester	1929-77-7	
Vinyl chloride	Ethene, chloro-	75-01-4	U043
Warfarin	2H-1-Benzopyran-2-one, 4- hydroxy-3-(3-oxo-1- phenylbutyl)-, when present at concentrations less than 0.3%	81-81-2	U248
Warfarin	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, when present at concentrations greater than 0.3%	81-81-2	P001
Warfarin salts, when present at concentrations less than 0.3%			U248
Warfarin salts, when present at concentrations greater			P001

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
than 0.3%			
Zinc cyanide	Zinc cyanide Zn(CN)2	557-21-1	P121
Zinc phosphide	Zinc phosphide Zn3P2, when present at concentrations greater than 10%	1314-84-7	P122
Zinc phosphide	Zinc phosphide Zn3P2, when present at concentrations of 10% or less	1314-84-7	U249
Ziram	Zinc, bis(dimethylcarbamodithioato- S,S')-, (T-4)-	137-30-4	P205

FOOTNOTE:  $^1$ The abbreviation N.O.S. (not otherwise specified) signifies those members of the general class not specifically listed by name in this appendix.

Appendix I - Wyoming Wastes Excluded Under Chapter 1, Sections 3(a) and 3(c) of the Wyoming Hazardous Waste Management Rules and Regulations

Reserved.