Chapter NR 605

IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

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NR 605.01 Purpose. The purpose of this chapter is to establish criteria for identifying the characteristics of hazardous waste and to establish a list of solid wastes identified as hazardous based upon the use of the criteria, which shall be used by a solid waste generator, transporter or owner or operator of a solid waste treatment, storage or disposal facility to determine if the waste handled is a hazardous waste subject to regulation.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91.

NR 605.02 Applicability. This chapter identifies those solid wastes which are subject to regulation as hazardous waste under chs. NR 600 to 685. This chapter does not apply to metallic mining wastes resulting from a mining operation as defined in s. 144.81 (5), Stats.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91; am. Register, May, 1995, No. 473, eff. 6-1-95.

NR 605.03 Definitions. The definitions in s. NR 600.03 apply to this chapter.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91.

NR 605.04 Definition of hazardous waste. (1) A solid waste is a hazardous waste if:

(a) It is not excluded from regulation as a hazardous waste under s. NR 605.05 (1) to (4); and

(b) It meets any of the following criteria:

1. It is listed in s. NR 605.09 and has not been excluded from the lists under s. NR 605.10.

2. It is a mixture of solid waste and one or more hazardous wastes listed in s. NR 605.09 and has not been excluded under s. NR 605.10; however, the following mixtures of solid wastes and hazardous wastes listed in s. NR 605.09 are not hazardous wastes, except by application of subd. 1. or 3., if the generator can demonstrate that the mixture consists of wastewater, the discharge of which is subject to regulation under ch. 147, Stats., including wastewater at facilities which have eliminated the discharge of wastewater, and:

a. One or more of the following spent solvents listed in s. NR 605.09 (2) (a), table II: carbon tetrachloride, tetrachloroethylene, trichloroethylene; if the maximum total weekly usage of these solvents, other than the amounts that may 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 one part per million; or

b. One or more of the following spent solvents listed in s. NR 605.09 (2) (a), table II: methylene chloride, 1,1,1-trichloroethane, chlorobenzene, o-dichlorobenzene, cresols, cresylic acid, nitrobenzene, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, spent chlorofluorocarbon solvents; if the maximum total weekly usage of these solvents, other than the amounts that may 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

c. One of the following wastes listed in s. NR 605.09 (2) (b), table III: heat exchanger bundle cleaning sludge from the petroleum refining industry, hazardous waste no. K050; or

d. A discarded commercial chemical product, or chemical intermediate listed in s. NR 605.09 (3) (b), table IV or (c), table V, arising from minimal 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 this paragraph, "minimal" 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 wellmaintained 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

e. Wastewater resulting from laboratory operations containing hazardous wastes listed in s. NR 605.09, tables I to V with the hazard code (t) if 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 pretreatment 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 pretreatment facility. Toxic (T) wastes used in laboratories that are demonstrated not to be discharged to wastewater are not to be included in this calculation.

3. It exhibits any of the characteristics of hazardous waste identified in s. NR 605.08 except that any mixture of a waste from the extraction, beneficiation and processing of ores and minerals excluded under s. NR 605.05 (1) (1) and any other solid waste exhibiting a characteristic of hazardous waste under s. NR 605.08 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 I to s. NR 605.08 (5) 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.

4. Except as provided in subds. 5. and 6., it is generated from the treatment, storage or disposal of a hazardous waste, including any sludge, spill residue, ash, emission control dust or leachate, and it is a waste which is listed under s. NR 605.09, contains a waste listed under s. NR 605.09, or is derived from a waste listed under s. NR 605.09, and it has not been excluded under s. NR 605.10.

5. It is a waste pickle liquor sludge derived from the lime stabilization treatment of spent pickle liquor from the iron and steel industry falling under the standard industrial classification (SIC) codes 331 and 332, and the sludge exhibits one or more of the characteristics of hazardous waste identified in s. NR 605.08.

Note: If waste pickle liquor sludge derived from the lime stabilization treatment of spent pickle liquor from the iron and steelindustry falling under SIC codes 331 and 332 does not display one or more of the characteristics of hazardous waste identified in s. NR 605.08, it is not a hazardous waste.

6. a. Nonwastewater residues, such as slag, 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 or electric furnace combinations or industrial furnaces, as defined in s. NR 600.03, that are disposed in units subject to chs. NR 500 to 520, provided that these residues meet the generic exclusion levels identified in the tables in this subdivision for all constituents, and exhibit no characteristics of hazardous waste. Testing requirements shall 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 shall be collected and analyzed quarterly or when the process or operation generating the waste changes.

| | N4 |
|-----------------------------------|--|
| | Maximum for |
| Constituent | any single composite sample-TCLP (mg/l) |
| Generic exclusion levels for K06 | |
| HTMR residues | and KOO2 nonwastewater |
| Antimony | 0.10 |
| | 0.50 |
| Barium | 7.6 |
| 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 | |
| HTMR residues | nonwastewater |
| 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 |
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b. A one-time notification and certification shall be placed in the facility's files and sent to the department for K061, 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 subject to chs. NR 500 to 520. The notification and certification that is placed in the generator's or treater's files shall be updated if the process or operation generating the waste changes or if the unit 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 shall be sent to the department by the end of the calendar year, no later than December 31. The notification shall include the following information: The name and address of the unit receiving the waste shipments; the hazardous waste numbers and treatability groups at the initial point of generation; and the treatment standards applicable to the waste at the initial point of generation. The certification shall be signed by an authorized representative and shall 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."

7. It is a mixture of nonhazardous solid waste and a hazardous waste that is listed in s. NR 605.09 solely because it exhibits one or more of the characteristics of hazardous waste identified in s. NR 605.08, unless the resultant mixture no longer exhibits any characteristic of hazardous waste identified in s. NR 605.08, or unless the solid waste is excluded from regulation under s. NR 605.05 (1) (1) and the resultant mixture no longer exhibits any characteristic of hazardous waste identified in s. NR 605.08 for which the hazardous waste listed in s. NR 605.09 (1) was listed.

Note: Nonwastewater mixtures are still subject to the requirements of ch. NR 675, even if they no longer exhibit a characteristic at the point of land disposal.

Note: The process of mixing a nonhazardous solid waste and a hazardous waste may require a license under ch. NR 680 for hazardous waste treatment.

8. It is a nonwastewater residue, such as slag, resulting from high temperature metals recovery (HTMR) processing of K061 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 s. NR 600.03, that are disposed in a licensed solid waste disposal facility, provided that these residues meet the exclusion levels identified below for all constituents, and exhibit no characteristics of hazardous waste. Testing requirements shall 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 shall be collected and analyzed quarterly and/or when the process or operation generating the waste changes. The exclusion levels are:

| Constituent | Maximum for any single composite sample (mg/l) |
|------------------|--|
| Antimony | 0.063 |
| Arsenic | 0.055 |
| Barium | 6.3 |
| Beryllium | 0.0063 |
| Cadmium | 0.032 |
| Chromium (total) | 0.33 |
| Lead | 0.095 |
| Mercury | 0.009 |
| Nickel | 0.63 |
| Selenium | 0.16 |
| Silver | . 0.30 |
| Thallium | 0.013 |
| Vanadium | 1.26 |

8m. For each shipment of K061 HTMR residues sent to a licensed solid waste disposal facility that meets the exclusion levels for all constituents, and does not exhibit any characteristic, a notification and certification shall be sent to the department. The notification shall include the following information:

 The name and address of the licensed solid waste facility receiving the waste shipment;

b. The EPA hazardous waste number and treatability group at the initial point of generation;

c. The treatment standards applicable to the waste at the initial point of generation. The certification shall be signed by an authorized representative and shall 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."

9. It is used oil containing greater than or equal to 1000 ppm total halogens. Used oil containing greater than or equal to 1000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in s. NR 605.09. 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, "Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods", third edition, September, 1986, as amended by update I in July, 1992, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in appendix IV.

a. The rebuttable presumption does not apply to metalworking oils or fluids containing chlorinated paraffins, if they are processed, through a tolling agreement, to reclaim metalworking oils or fluids. The presumption does apply to metalworking oils or fluids if such oils or fluids are recycled in any other manner or disposed.

The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.

Note: Publication SW-846 may be obtained from:

Superintendent of Documents

U.S. Government Printing Office P.O. Box 37195

4Pittsburgh, PA 15250-7954 (202) 783-3238

This publication is available for inspection at the offices of the department, the sec-retary of state and the revisor of statutes.

(2) A solid waste which is not excluded from regulation under s. NR 605.05 (1) to (4) becomes a hazardous waste when any of the following events occur:

(a) In the case of a waste listed in s. NR 605.09, when the waste first meets the listing description in s. NR 605.09.

(b) In the case of a mixture of solid waste and one or more listed hazardous wastes, when a hazardous waste listed in s. NR 605.09 is first added to the solid waste.

(c) In the case of any other solid waste, including a solid waste mixture, when the waste exhibits any of the characteristics identified in s. NR 605.08.

(3) A hazardous waste shall remain a hazardous waste unless and until it:

(a) No longer exhibits any of the characteristics of a hazardous waste identified in s. NR 605.08; or

Note: However, wastes that exhibit a characteristic at the point of generation may still be subject to the requirements of ch. NR 675 even if the wastes no longer exhibit a characteristic at the point of land disposal.

(b) In the case of a waste which is listed under s. NR 605.09, contains a waste listed under s. NR 605.09; or is derived from a waste listed under s. NR 605.09, the waste is excluded under s. NR 605.10.

(c) Is no longer a solid waste.

(4) Notwithstanding subs. (1) to (3) and provided the debris as defined in s. NR 675.03 does not exhibit a characteristic identified at s. NR 605.08, the following materials are not subject to regulation under chs. NR 600 to 685:

(a) Hazardous debris as defined in s. NR 675.03 that has been treated using one of the required extraction or destruction technologies specified in Table 1 of s. NR 675.22; or

(b) Debris as defined in s. NR 675.03 that the department, considering the extent of contamination, has determined is no longer contaminated with hazardous waste.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91; corrections in (1) (a) and (2) (intro.) made under s. 13,93 (2m) (b) 7... Stats., Register, March, 1993, No. 447; am. (1) (b) 3.. 4., renum. (1) (b) 6. to be 7. and am., cr. (1) (b) 6., 8., 9., (4), Regis-ter, May, 1995, No. 473, eff. 6-1-95; correction in (1) (a) and (2) (intro.) made under s. 13.93 (2m) (b) 7.. Stats., Register, May, 1995, No. 473.

NR 605.05 Exemptions. (1) EXEMPTIONS. The following materials are excluded from regulation as hazardous wastes:

(a) Household waste, including all of the following:

1. Waste that has been collected, transported, stored, treated, disposed, recovered or reused, except if the hazardous waste in this stream is separated and accumulated for later treatment, storage or disposal by a person other than a member of the household where the waste is generated.

2. Waste accumulated by a municipality for 5 days or less in a clean sweep program as defined in s. NR 187.03 (1). This exclusion for clean sweep programs does not apply to the household waste upon its removal from the accumulation area for further management.

Note: The accumulation, treatment, storage and disposal of household wastes which are not excluded under this paragraph are subject to regulation under chs. NR 600 to 685.

(b) Waste that is treated, stored, disposed or otherwise managed by a resource recovery facility managing municipal solid waste, if such facility:

1. Receives and burns only:

a. Household waste, and

b. Solid waste from commercial or industrial sources that does not contain hazardous waste; and

2. Does not accept hazardous waste and the owner or operator of the facility has established contractual requirements or other appropriate notification or inspection procedures to assure that hazardous waste is not received at or burned in the facility.

(c) Cement kiln dust waste, except as provided by 40 CFR Part 266 Subpart H for facilities that burn or process hazardous waste.

(d) Solid wastes generated by any of the following and which are returned to the soils as fertilizers:

1. The growing and harvesting of agricultural crops.

2. The raising of animals, including animal manures.

(e) Solid waste which consists of discarded arsenical- treated wood or wood products which fail the test for the toxicity characteristic for hazardous waste codes D004 to 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 products for the intended end use of these materials.

(f) 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 40 CFR Part 266 Subpart H for facilities that burn or process hazardous waste.

Drilling fluids, produced waters, and other wastes (g) associated with the exploration, development or production of crude oil, natural gas or geothermal energy.

(h) Wastes which fail the test for the toxicity characteristic because chromium is present or are listed in s. NR 605.09 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

1. The chromium in the waste is exclusively, or nearly exclusively, trivalent chromium; and

The waste is generated from an industrial process which used trivalent chromium exclusively, or nearly exclusively, and the process does not generate hexavalent chromium; and

3. The waste is typically and frequently managed in non-oxidizing environments.

 Specific wastes which meet the standard in par. (h) 1. to 3., as long as they do not fail the test for the toxicity characteristic for any other constituent, and do not exhibit any other characteristic are:

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.

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

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; and through-the-blue.

4. Sewer screenings 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.

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.

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/chrome tan/retan/wet finish; and through-the-blue.

7. Waste scrap leather from the leather tanning industry, the shoe manufacturing industry and other leather product manufacturing industries.

Wastewater treatment sludges from the production of titanium dioxide pigment using chromium-bearing ores by the chloride process.

Mining overburden returned to the mine site.

(k) Solid waste 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 40 CFR 266 Subpart H for facilities that burn or process hazardous waste. For purposes of this paragraph, 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 or carbon dioxide; roasting, autoclaving, or chlorination in preparation for leaching, except where the roasting, autoclaving or chlorination or 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. For the purposes of this paragraph, solid waste from the processing of ores and minerals includes only the following wastes:

1. Slag from primary copper processing;

- 2. Slag from primary lead processing;

- Red and brown muds from bauxite refining;
- 4. Phosphogypsum from phosphoric acid production;
- 5. Slag from elemental phosphorus production;
- 6. Gasifier ash from coal gasification;
- 7: Process wastewater from coal gasification;

8. Calcium sulfate wastewater treatment plant sludge from primary copper processing;

- 9. Slag tailings from primary copper processing;
- 10. Fluorogypsum from hydrofluoric acid production;

11. Process wastewater from hydrofluoric acid production;

12. Air pollution control dust or sludge from iron blast furnaces;

Iron blast furnace slag;

Treated residue from roasting or leaching of chrome ore;

Process wastewater from primary magnesium processing by the anhydrous process;

Process wastewater from phosphoric acid production;

17. Basic oxygen furnace and open hearth furnace air pollution control dust or sludge from carbon steel production;

18. Basic oxygen furnace and open hearth furnace slag from carbon steel production;

19. Chloride process waste solids from titanium tetrachloride production;

Slag from primary zinc processing.

(m) By-products exhibiting a characteristic of hazardous waste that are reclaimed and complies with subs. (3) and (4).

Note: This exclusion does not apply to listed by-products included in s. NR 605.09.

(n) Domestic sewage.

(o) Any mixture of domestic sewage and other wastes that passes through a sewer system to a POTW for treatment."Domestic sewage" means untreated sanitary wastes that pass through a sewer system.

Note: A hazardous waste discharge report may be required under s. NR 211.17 for discharging waste that would otherwise be regulated as hazardous waste if it was not subject to this exemption.

(q) Petroleum contaminated media and debris that fail the test for the toxicity characteristic of s. NR 605.08 (5) for any of the hazardous waste codes D018 to D043, are not a hazardous waste for any other reason, and are subject to the corrective action regulations under 40 CFR 280, July 1, 1992.

Note: The publication containing the CFR references may be obtained from:

Superintendent of Documents U.S. Government Printing Office PO Box 371954

Pittsburgh, PA 15250-7954 (202) 783-3238

(q) Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic or meets the F500 hazardous waste listing is not subject to the requirements of chs. NR 600 to 685, but is regulated under ch. NR 590. 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 re-refined, reclaimed, burned for energy recovery, or reprocessed.

(r) 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.

(s) 1. Spent wood preserving solutions that have been reclaimed and are reused for their original intended purpose; and

2. Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.

(t) Hazardous Waste Nos. K060, K087, K141, K142, K143, K144, K145, K147 and K148, and any wastes from the coke byproducts processes that are hazardous only because they exhibit the toxicity characteristic specified in s. NR 605.08 (5) 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 exemption 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.

(u) 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.

(v) Non-teme plated used oil filters that are not mixed with wastes listed in s. NR 605.09 if these oil filters have been gravity hot-drained using any one of the following methods:

1. Puncturing the filter anti-drain back valve or the filter dome end and hot-draining.

2. Hot-draining and crushing.

3. Dismantling and hot-draining.

4. Any other equivalent hot-draining method that will remove used oil.

(w) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products.

(x) Used batteries or used battery cells returned to a battery manufacturer for regeneration.

(2) The following hazardous wastes are not subject to the requirements of chs. NR 610 to 685 when they are recycled and if the generator complies with subs. (3) and (4):

(a) Scrap metal that is legitimately recovered or reclaimed.

(b) Industrial ethyl alcohol that is legitimately recovered or reclaimed, except that:

1. A person initiating a shipment for legitimate recovery or reclamation in a foreign country, and any intermediary arranging for the shipment, shall comply with the requirements applicable to a primary exporter in s. NR 615.12 (1) (intro.), (1t) (a) to (d), (f) and (g) and (1u) to (1z), export the materials only upon consent of the receiving country and conforming with the EPA acknowledgment of consent, and provide a copy of the EPA acknowledgment of consent for the shipment to the transporter transporting the shipment for export;

2. Transporters transporting a shipment for export may not accept a shipment if the transporter knows the shipment does not conform to the EPA acknowledgment of consent, shall ensure that a copy of the EPA acknowledgment of consent accompanies the shipment and shall ensure that it is delivered to the facility designated by the person initiating the shipment.

(3) Generators of wastes that are excluded under subs. (1) (m) and (2) shall demonstrate, at the department's request, compliance with the terms of the exclusions by providing the following information:

(a) The name, location and address of the recycling facility;

(b) A description of the waste, hazardous waste number and waste quantity;

(c) A detailed description of the recycling process and how the waste is used as an ingredient in the process;

(d) A demonstration that there is a market or disposition of the waste; and

Note: An example of a demonstration of a market or disposition would be a contract showing the recycling facility uses the recyclable waste material as an ingredient in a production process.

(e) Documentation that the recycling facility has the necessary equipment to conduct the recycling activity.

(4) The exclusions included in subs. (1) (m) and (2) do not apply to wastes that are used in a manner constituting disposal or speculatively accumulated. Wastes that are used in a manner constituting disposal or speculatively accumulated are hazardous waste and shall be managed in accordance with all the requirements of chs. NR 600 to 685.

(5) GENERATION OF WASTE IN PRODUCT OR RAW MATERIAL UNITS. A hazardous waste which is generated in a product or raw material storage tank, a product or raw material vehicle, railroad freight car, 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 chs. NR 600 to 685 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. In accordance with s. NR 615.05 (4) (a) 4., the date upon which each period of accumulation begins after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials, shall be clearly marked and visible for inspection on each unit.

(6) DELETION OF CERTAIN HAZARDOUS WASTES CODES FOLLOW-ING EQUIPMENT CLEANING AND REPLACEMENT. 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 pars. (a) and (b). These wastes may, however, continue to meet another hazardous waste listing description or may exhibit one or more of the hazardous waste characteristics.

(a) General requirements. Generators shall 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 which minimizes or eliminates the escape of hazardous waste or waste constituents, leachate, contaminated drippage or hazardous waste decomposition products to the ground water, surface water or atmosphere.

(b) Cleaning requirements. 1. Generators shall prepare, sign and follow a written equipment cleaning plan that describes all of the following:

a. The equipment to be cleaned.

b. How the equipment will be cleaned.

c. The solvent to be used in the cleaning.

d. How solvent rinses will be tested.

e. How cleaning residues will be disposed.

2. Equipment shall be cleaned as follows:

a. Remove all visible residues from process equipment.

b. Rinse process equipment with an appropriate solvent until dioxins and dibenzofurans are not detected in the final solvent rinse.

3. Generators shall comply with the following analytical requirements:

a. Rinses shall be tested in accordance with SW-846, Method 8920.

b. "Not detected" means at or below the lower method calibration limit (MCL) in Method 8920, Table 1.

4. The generator shall manage all residues from the cleaning process as F032 waste.

(c) Replacement requirements. 1. Generators shall prepare, sign and follow an equipment replacement plan that describes all of the following:

a. The equipment to be replaced.

b. How the equipment will be replaced.

c. How the equipment will be disposed.

2. The generator shall manage the discarded equipment as F032 waste.

(d) Documentation requirements. Generators shall document that equipment cleaning or replacement, or both, was performed in accordance with this subsection, and carried out after termina-

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tion of use of chlorophenolic preservations. The generator shall maintain all of the following records documenting the cleaning and replacement as part of the facility's operating record:

1. The name and address of the facility.

2. Formulations previously used and the date on which their use ceased in each process at the plant.

3. Formulations currently used in each process at the plant.

4. The equipment cleaning or replacement plan.

5. The name and address of any persons who conducted the cleaning and replacement.

The dates on which cleaning and replacement were accomplished.

7. The dates of sampling and testing.

8. A description of the sample handling and preparation techniques, including techniques used for extraction, containerization, preservation and chain-of-custody of the samples.

9. A description of the tests performed, the date the tests were performed and the results of the tests.

 The name and model numbers of the instruments used in performing the tests.

11. QA/QC documentation.

12. 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 NR 656.05 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.

(7) SAMPLES. (a) Except as provided in par. (b), a sample of solid waste 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 regulation under chs. NR 600 to 685 when the sample is being:

1. Transported to a laboratory for the purpose of testing;

2. Transported back to the sample collector after testing;

Stored by the sample collector before transport to a laboratory for testing;

Stored in a laboratory before testing;

5. Stored in a laboratory after testing but before it is returned to the sample collector; or

Stored temporarily in the laboratory after testing for a specific purpose,

Note: An example of a specific purpose would be storage until conclusion of a court case or enforcement action where further testing of the sample may be necessary.

(b) In order to qualify for the exemption in par. (a) 1. and 2., a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector shall:

1. Comply with DOT, U.S. postal service (USPS) or any other applicable shipping requirements; or

2. 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:

a. Assure that the following information accompanies the sample: the sample collector's name, mailing address and telephone number; the laboratory name, address and telephone number; the quantity of the sample; the date of shipment; and a description of the sample; and

 b. Package the sample so that it does not leak, spill or vaporize from its packaging.

(c) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory no longer meets any of the conditions stated in par. (a). (8) TREATABILITY STUDIES SAMPLES. Except as provided in sub. (9), persons who generate or collect samples for the purpose of conducting treatability studies are not subject to any requirement of chs. NR 610 to 699 when:

(a) The sample is being collected and prepared for transportation by the generator or sample collector;

(b) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility;

(c) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study; or

(d) The sample shipment is accompanied by a manifest, according to the requirements of s. NR 615.08.

(9) The exemption in sub. (8) is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies if:

(a) The generator or sample collector uses in treatability studies no more than 1000 kg of any non-acute hazardous waste, 1 kg of acute hazardous waste, or 250 kg of soils, water or debris contaminated with acute hazardous waste for each process being evaluated for each generated waste stream;

(b) The mass of each sample shipment does not exceed 1000 kg of non-acute hazardous waste, 1 kg of acute hazardous waste or 250 kg of soils, water or debris contaminated with acute hazardous waste;

(c) The sample is packaged so that it does not leak, spill or vaporize from its package during shipment and meet the following requirements:

1. The transportation of each sample shipment complies with ch. NR 620, U.S. department of transportation (DOT), U.S. postal service (USPS) and any other applicable shipping requirement;

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:

a. The name, mailing address and telephone number of the originator of the sample;

b. The name, address and telephone number of the facility that will perform the treatability study;

c. The quantity of the sample:

d. The date of shipment; and

e. A description of the sample, including its EPA hazardous waste number.

(d) The sample is shipped to a laboratory or testing facility which:

1. Is exempt under sub. (11);

Has an operating license, interim license, variance or waiver from the department;

 Is shipped to an out-of-state laboratory or facility that has an applicable exemption, operating license, interim license, variance or waiver which has been granted by EPA or an authorized state; and

(e) The generator or sample collector maintains the following records for a period ending 3 years after completion of the treatability study:

Copies of the manifest and any other required shipping documents;

A copy of the contract with the facility conducting the treatability study; and

3. Documentation showing:

a. The amount of waste shipped under this exemption;

b. The name, address and EPA identification number of the laboratory or testing facility that received the waste;

c. The date that the shipment was made; and

d. Whether or not unused samples and residues were returned to the generator.

(f) The generator reports the information required under par. (e) 3. in its annual report.

(10) (a) The department may grant requests, on a case-bycase basis, for quantity limits in excess of those specified in sub. (9) (a), for up to an additional 500 kg of non-acute hazardous waste, 1 kg of acute hazardous waste and 250 kg of soils, water and debris contaminated with acute hazardous waste, to conduct further treatability study evaluation when:

1. There has been an equipment or mechanical failure during the conduct of a treatability study;

2. There is a need to verify the results of a previously conducted treatability study;

3. 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.

(b) The additional quantities allowed are subject to all the provisions in subs. (8) and (9) (b) to (f).

(c) The generator or sample collector shall apply to the department and provide the following information:

1. The reason why the generator or sample collector requires an additional quantity of sample for the treatability study evaluation and the amount needed;

2. Documentation accounting for all samples of hazardous waste from the waste stream which have been sent for or undergone treatability studies including;

a. The date each previous sample from the waste stream was shipped;

b. The quantity of each previous shipment;

c. The laboratory or testing facility to which it was shipped;

d. What treatability study processes were conducted on each sample shipped, and

e. A summary of the results of each treatability study.

3. A description of the technical modifications or change in specification that shall be evaluated and the expected results;

4. If further study is being required due to equipment or mechanical failure, information concerning the reason for the failure or breakdown and what procedures or equipment improvements have been made to protect against further breakdowns; and

5. Other information that the department considers necessary.

(11) SAMPLES UNDERGOING TREATABILITY STUDIES AT LABORA-TORIES AND TESTING FACILITIES. Samples undergoing treatability studies and the laboratory or testing facility conducting treatability studies, to the extent the facilities are not otherwise subject to the requirements of chs. NR 600 to NR 685, are not subject to any requirement of chs. NR 600 to NR 685 if the conditions of pars. (a) to (k) are met. A mobile treatment unit may qualify as a testing facility subject to pars. (a) to (k). Where a group of mobile treatment units are located at the same site, the limitations specified in pars. (a) to (k) apply to the entire group of mobile treatment units collectively as if the group were one mobile treatment unit.

(a) No less than 45 days before conducting treatability studies, the facility shall notify the department, in writing, that it intends to conduct treatability studies under this subsection.

(b) The laboratory or testing facility conducting the treatability study shall have an EPA identification number.

(c) No more than a total of 250 kg of "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.

(d) The quantity of "as received" hazardous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 1000 kg, the total of which may include 500 kg of soils, water or debris contaminated with acute hazardous waste or 1 kg of acute hazardous waste. This quantity limitation does not include:

1. Treatability study residues; and

2. Treatment materials, including nonhazardous solid waste, added to"as received" hazardous waste.

(e) No more than 90 days have elapsed since the treatability study for the sample was completed, or no more than one year has elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs.

(f) The treatability study does not involve the placement of hazardous waste on the land or open burning of hazardous waste.

(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 shall be included for each treatability study conducted:

1. The name, address and EPA identification number of the generator or sample collector of each waste sample;

2. The date the shipment was received;

3. The quantity of waste accepted;

4. The quantity of "as received" waste in storage each day;

5. The date the treatment study was initiated and the amount

of "as received" waste introduced to treatment each day;

6. The date the treatability study was conducted;

7. 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.

(h) The facility keeps, on-site, a copy of the treatability study contract and shipping papers associated with the transport of treatability study samples to and from the facility for a period ending 3 years from the completion date for each treatability study.

(i) The facility prepares and submits a report to the department by March 15 of each year that estimates the number of studies and amount of waste expected to be used in treatability studies during the current year and includes the following information for the previous calendar year:

1. The name, address and EPA identification number of the facility conducting the treatability studies;

2. The types, by process, of treatability studies conducted;

The names and addresses of persons for whom studies have been conducted, including their EPA identification numbers;

4. The total quantity of waste in storage each day;

5. The quantity and types of waste subjected to treatability studies;

6. When each treatability study was conducted;

7. The final disposition of residues and unused sample from each treatability study.

(j) The facility determines whether any unused sample or residues generated by the treatability study are hazardous waste under s. NR 605.07 and, if so, are subject to chs. NR 600 to 685, unless the residues and unused samples are returned to the sample originator under the sub. (8), (9) or (10) exemption.

(k) The facility notifies the department, by letter, when the facility is no longer planning to conduct any treatability studies at the site.

In 6 site. History: Cr. Register, February, 1991, No. 422, eff. 3-1-91; cr. (1) (a) 13., Register, May, 1992, No. 437, eff. 6-1-92; correction made under s. 13.93 (2m) (b) 1., Stats., Register, August, 1992, No. 440; am. (1) (c), (i) (intro.), (j) (intro.) and (p), (4) (c), cr. (1) (q), (r) and (s). Register, August, 1992, No. 440, eff. 9-1-92; corrections in (1) (j), (n), (1h) (intro.), (a), (b) (intro.), made under s. 13.93 (2m) (b) 7., Stats., Register, March, 1993, No. 447; am. (1) (c), (e), r. (1) (f), renum, (1) (g) to (s) to be (1) (f) to (r) and am. (1) (f), (i) (intro.), (k), (m), (o), (p), (q), (1h) (intro.) to be (2) (intro.) and am., (1r) (intro.) to be (3) (intro.), and am., (1r) to be (4) and am., (2) to be (5), (3) and (4) to be (7) and (8) and am. (8) (intro.), (4h) to be (9) and am. (9) (intro.), (d) 1., (4p) to be (10) and am, (10) (a) (intro.), (b), (5) to be (11) and am., (11) (j), cr. (1) (s), (t), (u), (v), (w), (x), (6), Register, May, 1995, No. 473, eff. 6-1-95; r. (1) (D, Register, June, 1996, No. 486, eff. 7-1-96.

NR 605.06 Residues of hazardous waste in empty containers. (1) Any hazardous waste that is remaining in either an empty container or an inner liner removed from an empty con-

tainer, that meet the criteria in sub. (3), (4) or (5), is not subject to regulation under chs. NR 600 to 685.

(2) Any hazardous waste in either a container that is not empty or an inner liner removed from a container that is not empty, as specified in subs. (3) to (5), is subject to regulation under chs. NR 600 to 685.

(3) 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 listed as an acute hazardous waste in s. NR 605.09 (2) (a), table II or (b), table III, or identified in table IV of s. NR 605.09 (3) (b), is empty if all wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container; and

Note: Examples of commonly employed practices would be pouring, pumping and aspirating.

(a) No more than 2.5 centimeters (one inch) of residue remains on the bottom of the container or inner liner, or

(b) No more than 3% 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

(c) No more than 0.3% 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.

(4) A container that has held a hazardous waste that is a compressed gas is empty when the pressure in the container approaches atmospheric pressure.

(5) A container or an inner liner removed from a container that has held an acute hazardous waste listed in s. NR 605.09 (2) (a), table II or (b), table III, or identified in s. NR 605.09 (3) (b), table IV is empty if:

 (a) The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;

(b) 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

(c) 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.

Note: Empty containers and rinsate from the cleaning or reconditioning of empty containers are regulated as solid waste under chs. NR 500 to 522. In addition, any rinsate from the cleaning or reconditioning of empty containers as specified in this section is subject to regulation as a hazardous waste under chs. NR 600 to 685 if it exhibits any of the characteristics in s. NR 605.08.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91.

NR 605.07 Criteria for identifying the characteristics of hazardous waste and for listing hazardous waste. (1) CRITERIA FOR IDENTIFYING THE CHARACTERISTICS OF HAZARDOUS WASTE. The department shall identify and define a characteristic of hazardous waste only upon determining that:

(a) A solid waste that exhibits the characteristic may:

 Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or

2. 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

(b) The characteristic may be:

 Measured by an available standardized test method which is reasonably within the capability of generators of solid waste or private sector laboratories that are available to serve generators of solid waste; or

Reasonably detected by generators of solid waste through their knowledge of their waste.

(2) CRITERIA FOR LISTING HAZARDOUS WASTE. (a) The department shall list a solid waste as a hazardous waste under s. NR

605.09 only upon determining that the solid waste meets one of the following criteria:

1. It exhibits any of the characteristics of hazardous waste identified in s. NR 605.08.

2. 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 to have an oral LD50 toxicity measured in rats of less than 50 milligrams per kilogram, an inhalation LC50 toxicity measured in rats of less than 2 milligrams per liter, or a dermal LD50 toxicity measured in rabbits 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.

3. It contains any of the toxic constituents listed in Appendix IV and, after considering the following factors, the department 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:

a. The nature of the toxicity presented by the constituent.

b. The concentrations of the constituent in the waste.

c. 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 subpar. g.

d. The persistence of the constituent or any toxic degradation product of the constituent.

e. The potential for the constituent or any toxic degradation product of the constituent to degrade into non-harmful constituents and the rate of degradation.

f. The degree to which the constituent or any degradation product of the constituent bioaccumulates in ecosystems.

g. The plausible types of improper management to which the waste could be subjected.

h. The quantities of the waste generated at individual generation sites or on a regional or statewide basis.

i. 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.

j. Actions taken by other governmental agencies or regulatory programs based on the health or environmental hazard posed by the waste or waste constituent.

k. Other factors as may be relevant in a specific case.

(b) The department may list classes or types of solid waste if there is reason to believe that individual wastes, within the class or type of waste, typically or frequently because their quantity, concentration, or physical, chemical or infectious characteristics, may:

 Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or

2. Pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed.

(c) Hazardous wastes which have been listed in accordance with the criteria in par. (a) 2. are designated as acute hazardous wastes and wastes which have been listed in accordance with the criterion in par. (a) 3. are designated as toxic wastes.

Note: Section 144.62, Stats., requires the department to add any waste listed by U. S. EPA to the lists in s. NR 605.09. The criteria of sub. (2) apply only to wastes listed by Wisconsin.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91; am. (2) (a) 3. (intro.), Register, May, 1995, No. 473, eff. 6-1-95.

NR 605.08 Characteristics of hazardous waste. (1) GENERAL. (a) A solid waste which is not excluded from regulation under s. NR 605.05 (1) to (2) is a hazardous waste if it exhibits any of the characteristics identified in this section.

(b) A hazardous waste which is identified by a characteristic in this section is assigned every hazardous waste number that is applicable as set forth in this section. This number shall be used in complying with the notification requirements in s. NR 600.05 and all applicable record-

keeping and reporting requirements under chs. NR 600 to 680.

(c) For purposes of this section, the department shall consider a sample obtained using any of the applicable sampling methods specified in appendix I to be a representative sample.

(2) CHARACTERISTIC OF IGNITABILITY. (a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:

 It is a liquid, other than an aqueous solution containing less than 24% alcohol by volume, and has a flash point less than 60° C (140° F), as determined by a Pensky-Martens closed cup tester, using the test method specified in ASTM standard D-93-85, or a Setaflash closed cup tester, using the test method specified in ASTM standard D-3278-82, or as determined by an equivalent test method approved by EPA.

Note: The publications containing these standards may be obtained from:

American Society for Testing and Materials

1916 Race Street Philadelphia, PA 19103

The publications containing these standards are available for inspection at the offices of the department, the secretary of state and the revisor of statutes.

2. It is not a liquid and is capable, at a temperature of 25° C and a pressure of one atmosphere, 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.

It is an ignitable compressed gas as defined in 49 CFR 173.300 October 1, 1990, and as determined by the test methods described in that regulation, ASTM standard D-323-82, or equivalent test methods approved by EPA.

Note: The publication containing the CFR reference may be obtained from: The Superintendent of Documents U.S. Government Printing Office

Washington, DC 20402

The ASTM publication may be obtained from:

American Society for Testing and Materials 1916 Race Street Philadelphia, PA 19103

These publications are available for inspection at the offices of the department, the secretary of state and the revisor of statutes.

4. It is an oxidizer, such as a chlorate, permanganate, inorganic peroxide, nitro carbo nitrate or a nitrate, that yields oxygen readily to stimulate the combustion of organic matter.

(b) A solid waste that exhibits the characteristic of ignitability has the hazardous waste number of D001.

(3) CHARACTERISTIC OF CORROSIVITY. (a) A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties:

 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 either EPA method 9040 in SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", third edition, September, 1986, as amended by update I in July 1992.

2. It is a liquid and corrodes plain carbon steel with a carbon content of 0.20% at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55° C (130° F) as determined by the test method specified in NACE (National Association of Corrosion Engineers) standard TM-01-69 as standardized in SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", third edition, September, 1986, as amended by update I in July, 1992.

Note: Publication SW-846 may be obtained from:

Superintendent of Documents

U.S. Government Printing Office P.O. Box 371954

Pittsburgh, PA 15250-7954 (202) 783-3238

This publication is available for inspection at the offices of the department, the secretary of state and the revisor of statutes.

(b) A solid waste that exhibits the characteristic of corrosivity has the hazardous waste number of D002.

(4) CHARACTERISTIC OF REACTIVITY. (a) A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has any of the following properties:

1. It is normally unstable and readily undergoes violent change without detonating.

It reacts violently with water.

3. It forms potentially explosive mixtures with water.

4. 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.

5. 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.

6. It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.

7. It is readily capable of detonation or explosive decomposition or reaction at a temperature of 25° C and a pressure of one atmosphere.

8. It is a forbidden explosive as defined in 49 CFR 173.51 [October 1, 1990], or a Class A explosive as defined in 49 CFR 173.53 [October 1, 1990], or a Class B explosive as defined in 49 CFR 173.88 [October 1, 1990].

Note: The publications containing these regulations may be obtained from: Superintendent of Documents

U.S. Government Printing Office

P.O. Box 371954 Pittsburgh, PA 15250-7954 (202) 783-3238

The publications containing these regulations are available for inspection at the offices of the department, the secretary of state and the revisor of statutes.

(b) A solid waste that exhibits the characteristic of reactivityhas the hazardous waste number of D003.

(5) TOXICITY CHARACTERISTIC. (a) A solid waste exhibits the characteristic of toxicity if, using the toxicity characteristic leaching procedure, EPA method 1311 in SW--846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", third edition, September, 1986, as amended by update I in July, 1992, the extract from a representative sample of the waste contains any of the contaminants listed in table I at a concentration equal to or greater than the respective value given in that table. Where the waste contains less than 0.5% filterable solids, the waste itself, after filtering using the methodology in method 1311, is considered to be the extract for the purpose of this subsection.

Note: Publication SW-846 may be obtained from:

Superintendent of Documents U.S. Government Printing Office P.O. Box 371954

Pittsburgh, PA 15250-7954 (202) 783-3238

This publication is available for inspection at the offices of the department, the sec-retary of state and the revisor of statutes.

(b) A solid waste that exhibits the characteristic of toxicity has the hazardous waste number specified in table I which corresponds to the toxic contaminant causing it to be hazardous.

Table I

Maximum Concentration of Contaminants for the Toxicity Characteristic

| EPA HW No.1 | Contaminant | CAS No.2 | Regulatory Level (mg/L) |
|----------------|-----------------------------------|-----------|----------------------------|
| D004 | Arsenic | 7440382 | 5.0 |
| D005 | Barium | 7440-39-3 | 100.0 |
| D018 | Benzene | 0071-43-2 | 0.5 |
| D006 | Cadmium | 7440-43-9 | 1.0 |
| D019 | Carbon tetrachloride | 0056235 | 0.5 |
| D020 | Chlordane | 0057-74-9 | 0.03 |
| D021 | Chlorobenzene | 0108907 | 100.0 |
| D022 | Chloroform | 0067-663 | 6.0 |
| D007 | Chromium | 7440-47-3 | 5.0 |
| D023 | o-Cresol | 0095-48-7 | 200.0 |
| D024 | m-Cresol | 0108-39-4 | 200.0 |
| D025 | p-Cresol | 0106-44-5 | 200.0 |
| D026 | Cresol | | 200.0 |
| D016 | 2.4-D | 0094757 | 10.0 |
| D027 | 1,4-Dichlorobenzene | 0106-46-7 | 7.5 |
| D028 | 1,2-Dichloroethane | 0107-06-2 | 0.5 |
| D029 | 1.1-Dichloroethylene | 0075-35-4 | 0.7 |
| D030 | 2,4-Dinitrotoluene | 0121-14-2 | 0.13 |
| D012 | Endrin | 0072208 | 0.02 |
| D031 | Heptachlor (and its epox- ide) | 0076-448 | 0.008 |
| D032 | Hexachlorobenzene | 0118741 | ³ 0.13 |
| D033 | Hexachlorobutadiene | 0087683 | 0.5 |
| D034 | Hexachloroethane | 0067-72-1 | 3.0 |
| D008 | Lead | 7439-92-1 | 5.0 |
| D013 | Lindane | 0058-89-9 | 0.4 |
| D009 | Mercury | 7439-97-6 | 0.2 |
| D014 | Methoxychlor | 0072-43-5 | 10.0 |
| D035 | Methyl ethyl ketone | 0078-93-3 | 200.0 |
| D036 | Nitrobenzene | 0098-95-3 | 2.0 |
| D037 | Pentachlorophenol | 0087-86-5 | 100.0 |
| D038 | Pyridine | 0110-86-1 | 5.0 |
| D010 | Selenium | 7782-49-2 | 0.1 |
| D011 | Silver | 7440224 | 5.0 |
| D039 | Tetrachloroethylene | 0127-18-4 | 0.7 |
| D015 | Toxaphene | 8001-35-2 | 0.5 |

| D040 | Trichloroethylene | 0079-01-6 | 0.5 | | |
|-------------------------|-----------------------|-----------|-------|--|--|
| D041 | 2,4,5-Trichlorophenol | 0095-95-4 | 400.0 | | |
| D042 | 2,4,6-Trichlorophenol | 0088-06-2 | 2.0 | | |
| D017 | 2,4,5-TP (Silvex) | 0093-72-1 | - 1.0 | | |
| D043 | Vinyl chloride | 0075-01-4 | 0.2 | | |
| Hazardous waste number. | | | | | |

²Chemical abstracts service number,

³Quantitation limit is greater than the calculated regulatory level. The quantitation

limit therefore becomes the regulatory level.

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/1.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91; am. (1) (b), (2) (a) 1., (b), (3) (b), (4) (a) 8., (b), (5) (a) and (b), r. and recr. (5) table 1, Register, August, 1992, No. 440, eff. 9-1-92; am. (5) (a), Register, April, 1994, No. 460, eff. 5-1-94; am. (3) (a) 1., 2., r. and recr. (5) (b) Table I, Register, May, 1995, No. 473, eff. 6-1-95; correction in (1) (a) made under s. 13.93 (2m) (b) 7., Stats., Register, May, 1995, No. 473.

NR 605.09 Lists of hazardous wastes. (1) GENERAL. (a) A solid waste is a hazardous waste if it is listed in this section, unless it has been excluded from the lists under s. NR 605.10.

(b) The department has indicated the basis for listing the classes or types of wastes listed in this section by employing one or more of the following hazard codes:

1. Ignitable waste (I)

2. Corrosive waste (C)

3. Reactive waste (R)

4. Toxicity characteristic waste (E)

5. Acute hazardous waste (H)

6. Toxic waste (T)

Note: Appendix III identifies the constituent which caused the department to list the waste as a toxicity characteristic waste (E) or toxic waste (T) in sub. (2) (a) and (b).

(c) Each hazardous waste listed in subs. (2) and (3) is assigned a hazardous waste number which precedes the name of the waste. This number shall be used in complying with the notification requirements of s. NR 600.05 and recordkeeping requirements under chs. NR 610, 615, 620 and 630.

(d) The following hazardous wastes listed in table II of sub. (2) are acute hazardous wastes subject to the exclusion limits established in s. NR 610.09:

1. Hazardous waste numbers F020, F021, F022 and F023; and

2. Hazardous waste numbers F026 and F027.

(2) HAZARDOUS WASTE SOURCES. (a) Solid waste from nonspecific sources is a hazardous waste if it is listed in table II.

Table II Hazardous Waste from Nonspecific Sources

| Hazardous Waste Number Generic: | Hazardous Waste | Hazard Code |
|--|---|----------------|
| F001 | The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1.1-trichloroe- thane, carbon tetrachloride, and chlorinated fluorocarbons; all mixtures and blends of spent solvents used indegreasing containing, before use, a total of 10% 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, chloroben- zene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane and 1,1,2-trichloroethane; all mixtures and blends of spent solvents containing, before use, a total of 10% or more, by volume, of one or more of the above halogenated solvents or those listed in F001, F004or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. | (II) |
| F003 | The following spent non-halogenated solvents: xylene, acetone, ethylacetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl- alcohol, cyclobexanone and methanol; all mixtures and blends of spent solvents containing, before use, only the above spent non-haloge- nated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents and a total of 10% or more, by volume, of one or more of those solvents listed in F001, F002,F004 and F005; and still bottoms from the recov- ery of these spent solvents and spent solvent mixtures. | (I)* |
| F004 | The following spent non-halogenated solvents: cresols, cresylic acid, and nitrobenzene; all mixtures and blends of spent solvents contain- ing, before use, a total of 10% 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, methylethylketone, carbon disulfide, isobutanol, pyridine, benzene,2-ethoxyetha- nol and 2-nitropropane; all mixtures and blends of spent solvents containing, before use, a total of 10% 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. | (I, T) |
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| Hazardous Waste Number | Hazardous Waste | Hazard Code |
|------------------------------|--|----------------|
| F006 | Wastewater treatment sludges from electroplating operations, except from the following processes: (1) sulfuric acid an odizing of alumi- num; (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 or stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum. | (T) |
| | Note: Electroplating operations are considered to include commonand precious metals electroplating, anodizing, chemical etching and- milling, and cleaning and stripping when associated with these processes. For more information, refer to 51 FR 43350 to 43351, Tuesday, December 2, 1986. | |
| 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 heattreatingoperations 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 wastewater 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 hydrogenchlorideputification, from the production or manufacturing use, as areactant, 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 hydrogenchloride purification, from the production or manufacturing use, as areactant, 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 hydrogenchloride purification, from the manufacturing use, as a reactant, chemical intermediate or component in a formulating process, of tetra-,penta-, or hexa-chlorobenzenes under alkaline conditions. | (H) |
| F023 | Wastes, except wastewater and spent carbon from hydrogenchloride purification, from the production of materials on equipment pre- viously used for the production or manufacturing use, as areactant, 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 hexacitlorophene 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 radicalcatalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to 5, with varying amounts and positions of chlorine substitution. This listing does not include wastewaters, wastewater treatment sludges, spent catalysts and wastes listed insub. (2) (a) or (b). | (T) |
| F025 | Condensed light ends, spent filters and filter aids and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocar- bons, by free radical catalyzed processes. These chlorinated aliphatichydrocarbons 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 pre- viously used for the manufacturing use, as a reactant, chemical intermediate or component in a formulating process, of tetra-, penta- orhexachlorobenzene under alkaline conditions. | ന |
| F027 | Discarded, used or unused formulations containing tri-, tetra-orpentachlorophenol or discarded used or 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 solecomponent. | (H) |
| F028 | Residues resulting from the incineration or thermal treatment of soil contaminated with hazardous wastes F020, F021, F022, F023, F026 or 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 (exceptpotentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with s. NR 605.14 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 wastewaters from wood preserving processes that use creosote 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 bot- tom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote 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 wastewaters from wood preserving processes that use creo- sote or pentachlorophenol. | ጠ |
| F037 | Petroleum refinery primary oil or water or solids separation sludge-Any sludge generated from the gravitational separation of oil or water or 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 or water or solids separators; tanks and impoundments; ditches and other convey- ances; 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 inaggressive biological treatment units as defined in s. NR 605.15 (including sludges generated in one or more addi- tional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. | (1) |
| F038 | Petroleum refinery secondary (emulsified) oil or water or solids separation sludge-Any sludge or float generated from the physical or chemical separation of oil or water or 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 floation (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 treatmentunits as defined in s. NR 605.15 (including sludges and floats generated in on more additional units after wastewaters have been treated inaggressive biological treatment units) and F037. K048 and K051 wastes are not included in this listing. | (T) |

| Ŷ | lazardo Vaste lumber | - | Hazard Code |
|---|----------------------------|---|----------------|
| F | 039 | Leachate (liquids that have percolated through) and disposed wastes) resulting from the disposal of more than one restricted waste classi- fied by more than one waste code under s.NR 605.09, or from a mixture of wastes classified as hazardous unders. NR 605.09. Leachate resulting from the disposal of one or more of the following hazardous wastes and no other hazardous wastes retains its hazardous wastes code(s): F020, F021, F022, F026, F027 or F028. | (T) |
| F | 500 | Waste containing the halogenated compounds tetrachloroethylene, trichloroethylene, methylene chloride, I, I, 1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1, 1, 2-trichloro-1, 2, 2-trifluoroethane, trichlorofluorome- thane, 1, 1-dichloroethylene and 1, 2-dichloroethylene at greater than 1% (10,000ppm). This listing includes any combination of the above named halogenated compounds where the total chloride concentration or the sum of the concentrations of the individual compounds exceeds 1% or 10,000 ppm on a weight to weight basis. Halogenated compounds concentration shall be determined using EPA methods 8010A, 8021, 8240A or 8260 for volatile organics inSW-846, Test Methods for Evaluating Solid Waste, Physical/ChemicalMethods, third edition, September, 1986, as amended by update I in July, 1992, or total chloride analysis of bomb washings from ASTM D240-92. Stan- dard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter. | (T) |
| | Note: | Used chlorofluorocarbon refrigerants that are reclaimed for further use are exempt from hazardous waste regulation under s. NR 605.05 (1) (r). Publication SW-846 may be obtained from: Superintendent of Documents U.S. Government Printing Office P.O. Box 371954 Pittsburgh, PA 15250-7954 (202) 783-3238 | |

The publication containing the ASTM method may be obtained from:

American Society for Testing and Materials 1916 Race Street Philadelphia, PA 19103--1187 (215) 299-5400

These publications are available for inspection at the offices of the department, the secretary of state and the revisor of statutes.

(b) Solid waste from specific sources is a hazardous waste if it is listed in table III.

Table III

Hazardous Waste from Specific Sources

| Hazardous | | |
|--------------------|--|--------|
| Waste | | Hazard |
| Number | Hazardous Waste | Code |
| Wood Preservation | | |
| K001 | Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote or pentachloro- phenol. | (T) |
| Inorganic Pigments | | |
| K002 | Wastewater treatment sludge from the production of chrome yellow and orange pigments. | (T) |
| К003 | Wastewater treatment sludge from the production of molybdate orange pigments. | (T) |
| K004 | Wastewater treatment sludge from the production of zinc yellow pigments. | ແມ |
| K005 | Wastewater treatment sludge from the production of chrome green pigments. | (T) |
| 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. | ന |
| K008 | Oven residue from the production of chrome oxide green pigments. | (T) |
| Organic Chemicals | | |
| K009 | Distillation bottoms from the production of acetaldehyde fromethylene. | (T) |
| K010 | Distillation side cuts from the production of acetaldehyde fromethylene. | (T) |
| K011 | Bottom stream from the wastewater stripper in the productiono facrylonitrile. | (R, T) |
| K013 | Bottom stream from the acetonitrile column in the productiono facrylonitrile. | (R, T) |
| K014 | Bottoms from the acetonitrile purification column in the production of acrylonitrile. | (T) |
| K015 | Still bottoms from the distillation of benzyl chloride. | ന |
| K016 | Heavy ends or distillation residues from the production of carbon tetrachloride, | (T) |
| K017 | Heavy ends or still bottoms from the purification column in the production of epichlorohydrin. | (T) |
| K018 | Heavy ends from the fractionation column in ethyl chloride production. | ന |
| K019 | Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production. | ന |
| 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) |
| К022 | Distillation bottom tars from the production of phenol or acetone from curnene, | (T) |
| K023 | Distillation light ends from the production of phthalic anhydride from naphthalene. | (T) |
| K024 | Distillation bottoms from the production of phthalic anhydridefrom naphthalene. | (T) |
| K093 | Distillation light ends from the production of phthalic anhydride from ontho-xylene. | (T) |
| K094 | Distillation bottoms from the production of phthalic anhydridefrom ortho-xylene, | (T) |
| K025 | Distillation bottoms from the production of nitrobenzene by the nitration of benzene. | (T) |
| K026 | Stripping still tails from the production of methyl ethyl pyridines. | (Ť) |

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| Hazardous Waste Number | Hazardous Waste | Hazard Code |
|---------------------------|--|----------------|
| K027 | Centrifuge and distillation residues from toluene diisocyanate production. | (R, T) |
| K028 | Spent catalyst from the hydrochlorinator reactor in the production of 1.1,1-trichloroethane. | (T) |
| K029 | Waste from the product stream stripper in the production of 1,1,1trichloroethane. | (T) |
| коэз | Distillation bottoms from the production of I.I.1-trichloroethane. | (T) |
| K096 | Heavy ends from the heavy ends column from the production of 1.1.1-trichloroethane. | (T) |
| K030 | Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene. | (T) |
| K083 | Distillation bottoms from aniline production. | (T) |
| K103 | Process residues from aniline extraction from the production of aniline. | (T) |
| K104 | Combined wastewater streams generated from nitrobenzene/aniline production. | (T) |
| K085 | Distillation or fractionating column bottoms from the production of chlorobenzenes. | (T) |
| K105 | Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes. | ĊD |
| K107 | Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydra- zines. | (C.T) |
| K108 | Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethyl- hydrazine (UDMH) from arboxylic acid hydrazides. | (I,T) |
| K109 | Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides. | (T) |
| K110 | Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acidhydrazides. | (T) |
| K111 | Product washwaters from the production of dinitrotoluene vianitration of toluene. | (C, T) |
| K112 | Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene. | ຕ |
| K113 | Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene. | ጠ |
| K114 | Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene. | (T) |
| K115 | Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene. | (T) |
| K116 | Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation oftoluenedia- mine. | (T) |
| K117 | Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene. | ന |
| K118 | Spent adsorbent solids from purification of ethylene dibromidein the production of ethylene dibromide via bromination of ethene. | U |
| K136 | Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene. | (T) |
| K149 | Distillation bottoms from the production of alpha- (or methyl-)chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlo- rides 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 neuralization 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) |
| Pesticides | | |
| K031 | By-product salts generated in the production of MSMA and cacodylic acid. | т |
| K032 | Wastewater treatment sludge from the production of chlordane. | (J) |
| К033 | 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) |
| K097 | Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane. | ຕ |
| K035 | Wastewater treatment sludges generated in the production of creosote. | (T) |
| K036 | Sull bottoms from toluene reclamation distillation in the production of disulfoton. | J |
| K037 | Wastewater treatment sludges from the production of disulfoton. | Ð |
| K038 | Wastewater from the washing and stripping of phorate production. | (T) |
| K039 | Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate. | (T) |
| K040 | Wastewater treatment sludge from the production of phorate. | (T) |
| K041 | Wastewater treatment sludge from the production of toxaphene. | (T) |
| K098 | Untreated process wastewater from the production of toxaphene. | ĊD |
| K042 | Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T, | (T) |
| K043 | 2,6-Dichlorophenol waste from the production of 2,4-D. | (T) |
| K099 | Untreated wastewater from the production of 2,4-D. | (T) |
| K123 | Process wastewater, including supernates, filtrates and washwaters, from the production of ethylenebisdithiocarbamic acid andits salt. | (T) |
| K124 | Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts. | (C, T) |
| K125 | Filtration, evaporation and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts. | (T) |

DEPARTMENT OF NATURAL RESOURCES

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| | Hazardous Waste Number | Hazardous Waste | Hazard Code |
|----|---------------------------|--|----------------|
| | K126 | Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdi- thiocarbamic acid and its salts. | (T) |
| | K131 | Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide. | (C.T) |
| | K132 | Spent absorbent and wastewater separator solids from the production of methyl bromide. | m |
| | Explosives | | C -7 |
| | K044 | Wastewater treatment sludges from the manufacturing and processing of explosives. | (R) |
| | K045 | Spent carbon from the treatment of wastewater containing explosives. | (R) |
| ۰. | K046 | Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds. | ст) |
| | K043 K047 | | (R) |
| | | Pink or red water from TNT operations. | (K) |
| | Petroleum Refining | | - |
| | K048 | Dissolved air flotation (DAF) float from the petroleum refining industry. | с С |
| | K049 | Stop oil emulsion solids from the petroleum refining industry. | (T) |
| | K050 | Heat exchanger bundle cleaning sludge from the petroleum refining industry. | (T) |
| | K051 | American Petroleum Institute (API) separator sludge from the petroleum refining industry. | (Ť) |
| | K052 | Tank bottoms, leaded, from the petroleum refining industry. | (T) |
| | Iron and Steel | | |
| | K061 | Emission control dust or sludge from the electric furnace primary production of steel. | (T) |
| | K062 | Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry identified by the SIC- codes 331 and 332. | (C,T) |
| | Primary Copper | | |
| - | K064 | Acid plant blowdown slurry or sludge resulting from the thickening of blowdown slurry from primary copper production. | (T) |
| | Primary Lead | | |
| | K065 | Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities. | (T) |
| | Primary Zine | | 1-7 |
| | K066 | Sludge from treatment of process wastewater or acid plant blowdown from primary zinc production. | (T) |
| | | Studge from treatment of process wastewater of acto prain blowdown from printery zine production. | (1) |
| | Primary Aluminum | | m |
| | K088 | Spent polliners from primary aluminum reduction. | (T) |
| | Ferroalloys | - · · · · · · · · · · · · · · · · · · · | |
| | K090 | Emission control dust or sludge from ferrochromlumsilicon production. | (T) |
| | K091 | Emission control dust or sludge from ferrochromium production. | (T) |
| | Secondary Lead | | |
| | K069 | Emission control dust or sludge from secondary lead smelting. Thislisting does not include sludge generated from secondary acid scrubber systems. | (T) |
| | K100 | Waste leaching solution from acid leaching of emission control dust or sludge from secondary lead smelting. | (T) |
| | Inorganic Chemicals | | |
| | K071 | Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used. | (T) |
| | · K073 | Chlorinated hydrocarbon wastes from the purification step of the diaphragm cell process using graphite anodes in chlorine production. | (T) |
| | K106 | Wastewater treatment sludge from the mercury cell process in chlorine production. | (T) |
| | Ink Formulation | | |
| | K086 | Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps and stabilizers containing chromium and lead. | (T) |
| | Veterinary Pharmaceutic | als | |
| | 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 production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. | ന |
| | K102 | Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic oror- gano-arsenic compounds. | ຕ |
| | Coking | | |
| | K060 | Ammonia still lime sludge from coking operations. | (T) |
| | K087 | Decanter tank tar sludge from coking operations. | (T) |
| | K141 | Process residues from the recovery of coal tar, including, but notlimited 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 sludge 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) |
| | K143 | Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters and wash oil recovery units from the recovery of coke by-products produced from coal. | (T) |
| | K144 | Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recoveryof 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. | (1) |

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| Hazardous Waste Number | Hazardous Waste | Hazard Code |
|---------------------------|---|----------------|
| K147 | Tar storage tank residues from coal tar refining. | (T) |
| K148 | Residues from coal tar distillation, including but not limited to, stillbottoms. | (T) |
| The Super U.S. Gove | ard Industrial Classification Manual may be obtained from: intendent of Documents rnment Printing Office n. D.C. 20402 | |

This publication is available for inspection at the offices of the department, the secretary of state and the revisor of statutes.

(3) DISCARDED COMMERCIAL CHEMICAL PRODUCTS. OFF-SPECI-FICATION SPECIES, CONTAINER RESIDUES AND SPILL RESIDUES THEREOF. (a) The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded, when they are mixed with used oil or other solid waste 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:

I. Any commercial chemical product or manufacturing chemical intermediate having a generic name listed in table IV or V.

2. Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have a generic name listed in table IV or V.

3. Any container or inner liner removed from a container that has held any commercial chemical product or manufacturing chemical intermediate having a generic name listed in par. (b) or

Table IV

Acute Hazardous Commercial Chemical Products and Manufacturing Chemical Intermediates (c), or off-specification chemical product or manufacturing chemical intermediate which, if it met specifications, would have a generic name listed in table IV or V, unless the container is empty under the criteria in s. NR 605.06 (3) to (5).

4. 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 a generic name listed in table IV or V, 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 or manufacturing chemical intermediate which, if it met specifications, would have a generic name listed in table IV or V.

(b) The commercial chemical products, manufacturing chemical intermediates, off-specification commercial chemical products or manufacturing chemical intermediates described in par. (a) 1. or 2. or materials or items described in par. (a) 3. or 4. listed in table IV are identified as acute hazardous wastes (H) and are subject to the small quantity exclusion in s. NR 610.07. These wastes and their corresponding hazardous waste numbers are:

| Hazardous Waste | Chemical | |
|--------------------|---------------|---|
| Number | Abstracts No. | Substance |
| P023 | 00107-20-0 | Acetaldehyde, chloro- |
| P002 | 00591-08-2 | Acetamide, N-(aminothioxomethyl)- |
| P057 | 00640-19-7 | Acetamide, 2-fluoro- |
| P058 | 00062-748 | Acetic acid, fluoro-, sodium salt |
| P002 | 00591082 | I-Acetyl-2-thiourea |
| P003 | 00107-02-8 | Acrolein |
| P070 | 00116063 | Aldicarb |
| P004 | 00309-00-2 | Aldrin |
| P005 | 00107-18-6 | Allyl alcohol |
| P006 | 20859-73-8 | Aluminum phosphide (R,T) |
| P007 | 02763-96-4 | 5-(Aminomethyl)-3-isoxazolol |
| P008 | 00504-24-5 | 4-Aminopyridine |
| P009 | 00131-74-8 | Ammonium picrate (R) |
| P119 | 07803556 | Ammonium vanadate |
| P099 | 00506616 | Argentate(1-), bis(cyano-C)-, potassium |
| P010 | 07778-39-4 | Arsenic acid H3AsO4 |
| P012 | 01327-53-3 | Arsenic oxide As2O3 |
| P011 | 01303282 | Arsenic oxide As205 |
| P011 | 01303-28-2 | Arsenic pentoxide |
| P012 | 01327-53-3 | Arsenic trioxide |
| P038 | 00692-42-2 | Arsine, diethyl- |
| P036 | 00696286 | Arsonous dichloride, phenyl- |
| P054 | 00151-56-4 | Aziridine |
| P067 | 00075-55-8 | Aziridine, 2-methyl- |
| P013 | 00542-62-1 | Barium cyanice |
| P024 | 00106-47-8 | Benzenamine, 4-chloro- |
| P077 | 00100-01-6 | Benzenamine, 4-nitro- |

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DEPARTMENT OF NATURAL RESOURCES

| Hazardous | | |
|--------------|--------------------------|--|
| Waste | Chemical | |
| Number | Abstracts No. | Substance |
| P042 | 00051-43-4 | 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl] (R)- |
| P046 | 00122-09-8 | Benzeneethanamine, alpha, alpha-dimethyl- |
| P014 | 00108-98-5 | Benzenethiol |
| P001 | 1 000\$1-81-2 | 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-I-phenylbutyl)-, & salts, when present at concentrations greater than 0.3% |
| P028 | 00100-44-7 | Benzyl chloride |
| P015 | 07440-417 | Beryllium |
| P017 | 00598-31-2 | Bromoacetone |
| P018 | 00357-57-3 | Brucine |
| P045 | 39196-18-4 | 2-Butanone, 3.3-dimethyl-1-(methylthio)-, O-(methylamino)carbonyl) oxime |
| P021 | 00592018 | Calcium cyanide |
| P021 | 00592018 | Calcium cyanide Ca(CN)2 |
| P022 | 00075-15-0 | Carbon disulfide |
| P095 | 00075-44-5 | Carbonic dichloride |
| P023 | 00107-20-0 | Chloroacetaldehyde |
| P024 | 00106-47-8 | p-Chloroaniline |
| P026 | 05344-82-1 | 1-(o-Chlorophenyl)thiourea |
| P027 | 00542767 | 3-Chloropropionitrile |
| P029 | 00544-92-3 | Copper cyanide |
| P029 | 00544-92-3 | Copper cyanide Cu(CN) |
| P030 | • • • • • • | Cyanides (soluble cyanide salts), not otherwise specified |
| P031 | 00460-19-5 | Cyanogen |
| P033 | 00506774 | Cyanogen chloride |
| P033 | 00506-77-4 | Cyanogen chloride (CN)Cl |
| P034 | 00131-89-5 | 2-Cyclohexyl-4,6-dinitrophenol |
| P016 | 00542-88-1 | Dichloromethyl ether |
| P036 | 00696-28-6 | Dichlorophenylarsine |
| P037 | 00060-57-1 | Dieldrin |
| P038 | 00692-42-2 | Diethylarsine |
| P041 | 00311-45-5 | Diethyl-p-nitophenyl phosphate |
| P040 | 00297-97-2 | O,O-Diethyl O-pyrazinyl phosphorothioate |
| P043 P004 | 00055-91-4 | Diisopropylfluorophosphate (DFP) |
| P060 | 00309-00-2 00465-73-6 | 1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexachioro-1,4,4a,5,8,8a,-hexahydro-,(1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- |
| P000 | | 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)- |
| 1057 | 00060-57-1 | 2,7:3,6-Dimethanonaphth[2,3-b]oxirene3,4,5,6,9,9-hexachloro-1a, 2,2a,3,6,6a,7,7a-octahydro-,(1aalpha,2beta, 2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- |
| P051 | 1 00072-20-8 | 2,7:3,6-Dimethanonaphth [2,3-b]oxirene3,4,5,6,9,9-hexachloro-1a, 2,2a,3,6,6a,7,7a-octahydro-,(1aalpha,2beta,2abeta, 3alpha,6alpha,6abeta,7beta, 7aalpha)-, & metabolites |
| P044 | 00060-51-5 | Dimethoate |
| P046 | 00122-09-8 | alpha,alpha-Dimethylphenethylamine |
| P047 | 1 00534-52-1 | 4,6-Dinitro-o-cresol, & salts |
| P048 | 00051-28-5 | 2.4-Dinitrophenol |
| P020 | 00088-85-7 | Dinoseb |
| P085 | 00152-16-9 | Diphosphoramide, octamethyl- |
| P111 | 00107-49-3 | Diphosphoric acid, tetraethyl ester |
| P039 | 00298-04-4 | Disulfoton |
| P049 | 00541-53-7 | Dithiobiuret |
| P050 | 00115-29-7 | Endosulfan |
| P088 | 00145-73-3 | Endothall |
| P051 | 00072-20-8 | Endrin |
| P051 | 00072-20-8 | Endrin, & metabolites |
| P042 | 00051-43-4 | Epinephrine |
| P031 | 00460-19-5 | Ethanedinitrile |
| P066 | 16752-77-5 | Ethanimidothioic acid, N-[{(methylamino)carbony]oxy}-, methyl ester |
| P101 | 00107-12-0 | Ethyl cyanide |

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| Hazardous Waste Number | Chemical Abstracts No. | Substance | |
|------------------------------|---------------------------|--|---|
| POS4 | 00151-56-4 | Ethyleneimine | |
| P097 | 00052-85-7 | Famphur | |
| P056 | 07782-41-4 | Fluorine | |
| P057 | 00640-19-7 | Fluoroacetamide | |
| P058 | | | |
| | 00062748 | Fluoroacetic acid, sodium salt | |
| P065 | 00628-86-4 | Fulminic acid, mercury(2+) salt (R,T) | |
| P059 | 00076-44-8 | Heptachlor House the second s | |
| P062 | 00757-58-4 | Hexaethyl tetraphosphate | |
| P116 | 00079196 | Hydrazinecarbolhioamide | |
| P068 | 00060-34-4 | Hydrazine, methyl- | |
| P063 | 00074-90-8 | Hydrocyanic acid | |
| P063 | 00074-90-8 | Hydrogen cyanide | • |
| P096 | 07803-51-2 | Hydrogen phosphide | |
| P060 | 00465736 | Isodrin | |
| P007 | 02763-96-4 | 3 (2H)-Isoxazolone, 5-(aminomethyl)- | |
| P092 | 00062-38-4 | Mercury, (acetato-O)phenyl- | |
| P065 | 00628-86-4 | Mercury fulminate (R,T) | |
| P082 | 00062-75-9 | Methanamine, N-methyl-N-nitroso- | |
| P064 | 00624-83-9 | Methane, isocyanato- | |
| P016 | 0054288I | Meihane, oxybis[chloro- | |
| P112 | 00509-14-8 | Methane, tetranitro-(R) | |
| P118 | 00075707 | Methanethiol, trichloro- | |
| P050 | 00115-29-7 | 6,9-Methano-2,4,3-benzodioxathiepin. 6,7,8,9,10,10hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide | |
| P059 | 00076-44-8 | 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro- | |
| P066 | 16752-77-5 | Methomyl | |
| P068 | 00060-34-4 | Methyl hydrazine | |
| P064 | 00624-83-9 | Methyl isocyanate | |
| P069 | 00075-86-5 | 2-Methyllactoniuile | |
| P071 | 00298-00-0 | Methyl parathion | |
| P072 | 00086884 | alpha-Naphthylthiourea | |
| P073 | 13463-39-3 | Nickel carbonyl | |
| P073 | 13463393 | Nickel carbonyl Ni(CO)4, (T-4)- | |
| P074 | 00557-19-7 | Nickel cyanide | |
| P074 | 00557-19-7 | Nickel cynaide Ni(CN)2 | |
| P075 | 1 00054-11-5 | Nicotine, & salts | |
| P076 | 10102-43-9 | Nitric oxide | |
| P077 | 00100-01-6 | p-Nitroaniline | |
| P078 | 10102-44-0 | Nitrogen dioxide | |
| P076 | 10102-43-9 | Nitrogen oxide NO | |
| P078 | 10102-44-0 | Nitrogen oxide NO2 | |
| P081 | 00055-63-0 | Nitroglycerine (R) | |
| P082 | 00062-75-9 | | |
| P082 P084 | 04549-40-0 | N-Nitrosodimethylamine | |
| | | N-Nitrosomethylvinylamine | |
| P085 | 00152-16-9 | Octamethylpyrophosphoramide | |
| P087 | 20816-12-0 | Osmium oxide OsO4, (T-4)- | |
| P087 | 20816-12-0 | Osmium tetroxide | |
| P088 | 00145-73-3 | 7-Oxabicyclo[2.2.1]heptane-2.3-dicarboxylic acid | |
| P089 | 00056-38-2 | Parathion | |
| P034 | 00131-89-5 | Phenol, 2-cyclohexyl-4,6-dinitro- | |
| P048 | 00051-28-5 | Phenol, 2,4-dinitro- | |
| P047 | 1 00534-52-1 | Phenol, 2-methyl-4,6-dinitro-, & salts | |
| P020 | 00088857 | Phenol, 2-(1-methylpropyl)-4,6-dinitro- | |
| P009 | 00131-74-8 | Phenol, 2,4,6-trinitro, ammonium salt (R) | |
| P092 | 00062-38-4 | Phenylmercury acetate . | |
| P093 | 00103855 | Phenylthiourea | |
| P094 | 00298022 | Phorale | |
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DEPARTMENT OF NATURAL RESOURCES

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| Hazardous | | • |
|-----------|-----------------------|---|
| Waste | Chemical | |
| Number | Abstracts No. | Substance |
| P096 | 07803-51-2 | Phosphine |
| P041 | 00311-45-5 | Phosphoric acid, diethyl 4-nitrophenyl ester |
| P039 | 00298-04-4 | Phosphorodithiole acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester |
| P094 | 00298-02-2 | Phosphorodithioic acid, O,O-diethyl S-{(ethylthio)methyl] ester |
| P044 | 00060-51-5 | Phosphorodithioic acid, O,O-dimethyl \$-[2-(methylamino)-2-oxoethyl) ester |
| P043 | 00055914 | Phosphorofluoridic acid, bis(1-methylethyl) ester |
| P089 | 00056-38-2 | Phosphorothioic acid, O.O-diethyl O-(4-nitrophenyl) ester |
| P040 | 00297-97-2 | Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester |
| P097 | 00052-85-7 | Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O.O-dimethylester |
| P071 | 00298-00-0 | Phosphorothioic acid, O,O-dimethyI O-(4-nitrophenyl) ester |
| P110 | 00078-00-2 | Plumbane, tetraethyl- |
| P098 | 00151-50-8 | Potassium cyanide |
| P098 | 00151-50-8 | Potassium cyanide K(CN) |
| P099 | 00506616 | Potassium silver cyanide |
| P070 | 00116-06-3 | Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime |
| P101 | 00107-12-0 | Propanenitrile |
| P027 | 00542767 | Propanenitrile, 3-chloro- |
| P069 | 00075-86-5 | Propanenitrile, 2-hydroxy-2-methyl- |
| P081 | 00055630 | 1,2,3-Propanetriol, trinitrate (R) |
| P017 | 00598-31-2 | 2-Propanone, 1-bromo- |
| PI02 | 00107-19-7 | Propargyl alcohol |
| P003 | 00107-028 | 2-Propenal |
| P005 | 00107186 | 2-Propen-1-ol |
| P067 | 00075558 | 1.2-Propylenimine |
| P102 | 00107-19-7 | 2-Propyn-1-ol |
| P008 | 00504-24-5 | 4-Pyridinamine |
| P075 | 1 00054-11-5 | Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (\$)-, & salts |
| P114 | 12039-52-0 | Selenious acid, dithallium(1+) salt |
| P103 | 00630-10-4 | Selenourea |
| P104 | 00506-64-9 | Silver cyanide |
| P104 | 00506-64-9 | Silver cyanide Ag(CN) |
| P105 | 26628-22-8 | Sodium azide |
| P106 | 00143339 | Sodium cyanide |
| P106 | 00143339 | Sodium cyanide Na(CN) |
| P108 | 1 00057-24-9 | Strychnidin-10-one, & salts |
| P018 | 00357-57-3 | Strychnidin-10-one, 2,3-dimethoxy- |
| P108 | ¹ 00057249 | Strychnine, & salts |
| P115 | 07446186 | Sulfuric acid, dithallium(1+) salt |
| P109 | 03689245 | Tetraethyldithiopyrophosphate |
| P110 | 00078002 | Tetraethyl lead |
| P111 | 00107-49-3 | Tetraethyl pyrophosphate |
| P112 | 00509-14-8 | Tetranitromethane (R) |
| P062 | 00757–58–4 | Tetraphosphoric acid, hexaethyl ester |
| P113 | 01314-32-5 | Thallie oxide |
| P113 | 01314-32-5 | Thallium oxide T12O3 |
| ₽1]4 | 12039-52-0 | Thallium(I) selenite |
| P115 | 07446186 | Thallium(I) sulfate |
| P109 | 03689-24-5 | Thiodiphosphoric acid, tetraethyl ester |
| P045 | 39195-18-4 | Thiofanox |
| P049 | 00541-53-7 | Thioimidodicarbonic diamide [(H2N)C(S)]2NH |
| P014 | 00108-98-5 | Thiophenol |
| P116 | 00079-19-6 | Thiosemicarbazide |
| P026 | 05344-82-1 | Thiourea, (2-chlorophenyl)- |
| P072 | 00086-88-4 | Thiourea, 1-naphthaleny1- |
| P093 | 00103-85-5 | Thiourea, phenyl- |
| P123 | 08001352 | Toxaphene |
| P118 | 00075-70-7 | Trichloromethanethiol |

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| Hazardous Waste Number | Chemical Abstracts No. | Substance |
|------------------------------|---------------------------|--|
| P119 | 07803556 | Vanadic acid, ammonium salt |
| PI20 | 01314-62-1 | Vanadium oxide V2O5 |
| P120 | 01314-62-1 | Vanadium pentoxide |
| P084 | 04549-40-0 | Vinylamine, N-methyl-N-nitroso- |
| P001 | 1 0008181-2 | Warfarin, & salts, when present at concentrations greater than 0.3% |
| P121 | 00557-21-1 | Zinc cyanide |
| P121 | 00557-21-1 | Zinc cyanide Zn(CN)2 |
| P122 | 01314-84-7 | Zine phosphide Zn3P2, when present at concentrations greater than 10% (R,T |

1 CAS Number given for parent compound only.

(c) The commercial chemical products, manufacturing chemical intermediates, off-specification commercial chemical products or manufacturing chemical intermediates described in par. (a) 1. or 2. or materials or items described in par. (a) 3. or 4. listed in table V are identified as toxic wastes (T) unless otherwise designated and are subject to the small quantity exclusion in s. NR 610.05 (1). These wastes and their corresponding hazardous waste numbers are:

| Hazardous | | ~ |
|--------------------------|---------------------------|--|
| Waste Number | Chemical Abstracts No. | Substance |
| U001 | 00075-07-0 | Acetaldehyde (I) |
| U034 | 00075-87-6 | Acetaldehyde, trichloro- |
| U187 | 00062-44-2 | Acetamide, N-(4-ethoxyphenyl)- |
| U005 | 00053-96-3 | Acetanide, N-9H-fluoren-2-yl- |
| U240 | 1 00094-75-7 | Acetic acid, (2,4-dichlorophenoxy)-, salts & esters |
| J112 | 00141-78-6 | Acetic acid (2,4-acinoiopienioxy)-, saits & esters |
| U144 | 00301-04-2 | Acetic acid, lead(2+) salt |
| U214 | 00563-68-8 | Acetic acid, thallium(1+) salt |
| See F027 | 00093765 | Acetic acid, (2,4,5-trichlorophenoxy)- |
| J002 | 00067-64-1 | Acetone (1) |
| J003 | 00075-05-8 | |
| J005 J004 | 00098-86-2 | Acetonitrile (I,T) |
| J004 J005 | 00053-96-3 | Acetophenone |
| 1005 | | 2-Acetylaminofluorene |
| | 00075-36-5 | Acetyl chloride (C,R,T) |
| J007 | 00079-06-1 | Acrylamide |
| 800U | 00079-10-7 | Acrylic acid (l) |
| J009 | 00107-13-1 | Acrylonitrile |
| ЮН | 00061825 | Amitrole |
| J012 | 00062-53-3 | Aniline (I,T) |
| J136 | 00075605 | Arsinic acid, dimethyl- |
| J014 | 00492-80-8 | Auramine |
| J015 | 00115026 | Azaserine |
| J010 | 00050077 | Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione6-amino-8-[((aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexal dro-8a-methoxy-5-methyl-, [1aS-(Iaalpha, 8beta,8aalpha,8balpha)}- |
| 0157 | 00056-49-5 | Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- |
| J016 | 00225514 | Benz[c]actidine |
| JO 17 | 00098-87-3 | Benzal chloride |
| 1192 | 23950585 | Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- |
| JO18 | 00056-55-3 | Benz(a)anthracene |
| J094 | 00057-97-6 | Benz{a]anthracene, 7,12-dimethyl- |
| J012 | 00062533 | Benzenamine (I,T) |
| J014 | 00492-80-8 | Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl- |
| J049 | 03165-93-3 | Benzenamine, 4-chloro-2-methyl-, hydrochloride |
| 1093 | 00060-11-7 | Benzenamine, N.N-dimethyl-4-(phenylazo)- |
| 1328 | 00095534 | Benzenamine, 2-methyi- |
| 353 | 00106-49-0 | Benzenamine, 4methyl- |
| 1158 | 00101-14-4 | Benzenamine, 4,4'-methylenebis[2-chloro- |
| 1222 | 00636-21-5 | Benzenamine, 2-methyl-, hydrochloride |
| 1181 | 00099-55-8 | Benzenamine, 2-methyl-5-nitro- |
| 019 | 00071-43-2 | Benzene (I,T) |
| 1038 | 00510-15-6 | Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyester |
| 1030 | 00101-55-3 | Benzene, I-bromo-4-phenoxy- |
| 035 | 00305-03-3 | Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]- |
| 037 | 00108-90-7 | Benzene, chloro- |
| 221 | 25376-45-8 | Benzenediamine, ar-methyl- |
| 1028 | 00117-81-7 | • |
| | | 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester |
| 1069 | 00084-74-2 | 1,2-Benzenedicarboxylic acid, dibutyl ester |
| 1088 | 00084-66-2 | 1,2-Benzenedicarboxylic acid, diethyl ester |
| 1102 | 00131-11-3 | 1,2-Benzenedicarboxylic acid, dimethyl ester |
| 1107 | 00117-84-0 | 1.2-Benzenedicarboxylic acid, dioctyl ester |
| 1030 | 00095-50-1 | Benzene, 1,2-dichloro- |
| 1070 | | ~ |
| 071 | 00541-73-1 | Benzene, 1,3-dichloro- |
| 070 071 072 060 | | Benzene, 1,3-dichloro- Benzene, 1,4-dichloro- Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro- |

Table V Toxic Commercial Chemical Products and Manufacturing Chemical Intermediates

| Hazardous | | |
|-----------|---------------|---|
| Waste | Chemical | |
| Number | Abstracts No. | Substance |
| U223 | 26471-62-5 | Benzene, 1,3-diisocyanatomethyl- (R,T) |
| U239 | 01330-20-7 | Benzene, dimethyl- (I,T) |
| U201 | 00108-46-3 | 1.3-Benzenediol |
| U127 | 00118741 | Benzene, hexachloro- |
| U056 | 00110-82-7 | Benzene, hexahydro- (i) |
| U220 | 00108883 | Benzene, methyl- |
| U105 | 00121-14-2 | Benzene, 1-methyl-2,4-dinitro- |
| U106 | 00606202 | Benzene, 2-methyl-1,3-dinitro- |
| U055 | 00098-82-8 | Benzene, (1-methylethyl)- (I) |
| U169 | 00098953 | Benzene, nitro- |
| U183 | 00608-93-5 | Benzene, pentachloro- |
| U185 | 00082-68-8 | Benzene, pentachloronitro- |
| U020 | 00098-09-9 | Benzenesulfonic acid chloride (C,R) |
| U020 | 00098-09-9 | Benzenesulfonyl chloride (C.R) |
| | | |
| U207 | 00095-94-3 | Benzene, 1,2,4,5-tetrachloro- |
| U061 | - 00050-29-3 | Benzene,1,1'-(2,2,2-trichloroethylidene)bis[4-chloro- |
| U247 | 00072-43-5 | Benzene, 1, 1'-(2, 2, 2-trichloroethylidene) bis [4- methoxy- |
| U023 | 00098-07-7 | Benzene, (trichloromethyl)- |
| U234 | 00099-35-4 | Benzene, 1,3,5-trinitro- |
| U021 | 00092875 | Benzidine |
| U202 | 1 00081-07-2 | 1,2-Benzisothiazol-3 (2H)-one, 1,1-dioxide, & salts |
| U203 | 00094597 | 1.3-Benzodioxole, 5(2-propenyl) |
| U141 | 00120-58-1 | 1,3-Benzodioxole, 5-(1-propenyl)- |
| U090 | 00094586 | 1,3-Benzodioxole, 5-propyl- |
| U064 | 00189-55-9 | Benzo[rsi]pentaphene |
| U248 | 1 00081-81-2 | 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & saits, whe present at concentrations of 0.3% |
| | | or less |
| U022 | 00050-32-8 | Benzo[a]pyrene |
| U197 | 00106-51-4 | p-Benzoquinone |
| U023 | 00098-07-7 | Benzotrichloride (C,R,T) |
| U085 | 01464-53-5 | 2,2'-Bioxirane |
| U021 | 00092-87-5 | [1,1'-Biphenyl]-4,4'-diamine |
| U073 | 00091-94-1 | [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro- |
| U091 | 00119-90-4 | [1,1'-Bipheny]]-4,4'-diamine, 3,3'-dimethoxy- |
| U095 | 00119-93-7 | [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- |
| U225 | 00075-25-2 | Bromoform |
| U030 | 00101-55-3 | 4-Bromophenyl phenyl ether |
| U128 | 00087683 | 1.3-Butadiene, 1.1.2.3.4.4-hexachloro- |
| U172 | 00924-16-3 | I-Butanamine, N-butyI-N-nitroso- |
| U031 | 00071-36-3 | 1-Butanoi (I) |
| U159 | 00078933 | 2-Butanone (I,T) |
| U160 | 01338-23-4 | 2-Butanone, peroxide (R.T) |
| U053 | 04170-30-3 | 2-Butenal |
| U074 | 00764-41-0 | 2-Butene, 1,4-dichloro- (1,T) |
| U143 | 00303344 | 2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetra- hydro-1H-pyrrolizin-1-yl ester,[1S-[1alpha(Z),7(2S*,3R*),7aa]pha]]- |
| U031 | 00071-36-3 | n-Butyl alcohol (I) |
| U136 | 00075605 | Cacodylic acid |
| U032 | 13765190 | Calcium chromate |
| U238 | 00051-79-6 | Carbamic acid, ethyl ester |
| U178 | 00615532 | Carbamic acid, methylnitroso-, ethyl ester |
| U097 | 00079-44-7 | Carbanic chloride, dimethyl- |
| U114 | 1 00111-54-6 | Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters |
| U062 | 02303-16-4 | Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester |
| U215 | 06533-73-9 | Carbonic acid, dithallium(1+) salt |
| U033 | 00353-50-4 | Carbonic difluoride |
| U156 | 00079-22-1 | Carbonochloridic acid, methyl ester (I.T) |
| U033 | 00353504 | Carbon oxyfluoride (R,T) |
| 5055 | JJJJJ-JV-4 | |

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| Hazardous | | | |
|--|--|---|-----|
| Waste | Chemical | | |
| Number | Abstracts No. | Substance | |
| U211 | 00056-23-5 | Carbon tetrachloride | |
| U034 | 00075-87-6 | Chloral | |
| U035 | 00305-033 | Chlorambucil | |
| U036 | 00057749 | Chlordane, alpha & gamma isomers | |
| U026 | 00494-03-1 | Chlomaphazin | |
| U037 | 00108-90-7 | Chlorobenzene | |
| U038 | 00510-15-6 | Chlorobenzilate | |
| U039 | 00059-50-7 | p-Chloro-m-cresol | |
| U042 | 00110758 | 2-Chloroethyl vinyl ether | |
| U044 | 00067663 | Chloroform | |
| U046 | 00107-30-2 | Chloromethyl methyl ether | |
| U047 | 00091-58-7 | beta-Chloronaphthalene | |
| U048 | 00095-57-8 | o-Chlorophenol | |
| U049 | 03165-93-3 | 4Chloroo-toluidine, hydrochloride | |
| U032 | 13765190 | Chromic acid H2CrO4, calcium salt | |
| U050 | 00218-01-9 | Chrysene | |
| U051 , | | Creosote | |
| U052 | 01319-77-3 | Cresol (Cresylic acid) | |
| U053 | 04170-30-3 | Crotonaldehyde | |
| U055 | 00098-82-8 | Cumene (I) | |
| U246 | 00506683 | Cyanogen bromide (CN)Br | |
| U197 | 00106-51-4 | 2.5-Cyclohexadiene-1.4-dione | |
| U056 | 00110-82-7 | Cyclohexane (I) | |
| U129 | 00058-89-9 | Cyclohexane, 1.2,3.4,5,6-hexachloro-(lalpha,2alpha,3beta,4alpha,5alpha,6beta)- | |
| U057 | 00108-94-1 | Cyclohexanone (I) | |
| U130 | 00077-47-4 | 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- | |
| U058 | 00050-18-0 | Cyclophosphamide | |
| U240 | ¹ 00094-75-7 | 2,4-D, saits & esters | |
| U059 | 20830-81-3 | Daunomycin | |
| U060 | 00072548 | DDD | |
| U061 | 00050-29-3 | DDT | |
| 110/0 | | | |
| U062 | 02303-16-4 | Dialiate | |
| U062 U063 | 02303164 00053703 | | |
| | | Dibenz(a,h)anthracene | ••• |
| U063 | 00053-70-3 00189-55-9 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene | ••• |
| U063 U064 U066 | 00053-70-3 00189-55-9 00096-12-8 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane | ••• |
| U063 U064 U066 U069 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2–Dibromo–3–chloropropane Dibutyl phthalate | ••• |
| U063 U064 U066 U069 U070 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene | •• |
| U063 U064 U066 U069 U070 U071 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene | •• |
| U063 U064 U066 U069 U070 U071 U072 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzidine | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane DibutyI phthalate o-Dichlorobenzene m-Dichlorobenzene g-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) | · • |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene g-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane | · • |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U078 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane DibutyI phthalate o-Dichlorobenzene m-Dichlorobenzene 9-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U078 U079 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U078 U079 U025 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene 9-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U078 U079 U025 U025 U027 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene Dichloroethyl ether Dichloroethyl ether | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U074 U075 U078 U079 U025 U025 U027 U024 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene Dichloroethyl ether Dichloroisopropyl ether | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U074 U075 U078 U079 U025 U025 U027 U024 U081 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-61-1 00111-91-1 00120-83-2 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene 3,3'-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene Dichloroethyl ether Dichloroethyl ether Dichloromethoxy ethane 2,4-Dichlorophenol | · • |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U074 U075 U078 U079 U025 U025 U027 U024 U024 U081 U082 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzene 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene Dichloroethyl ether Dichloroothyl ether Dichloromethoxy ethane 2,4-Dichlorophenol 2,6-Dichlorophenol | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U074 U075 U078 U079 U025 U025 U027 U024 U081 U081 U082 U084 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 00542-75-6 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane DibutyI phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzeline 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene DichloroispropyI ether DichloroispropyI ether Dichloromethoxy ethane 2,4-Dichlorophenol 2,6-Dichlorophenol 1,3-Dichloroppene | •• |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U074 U075 U078 U079 U025 U025 U027 U024 U081 U081 U082 U084 U085 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 00542-75-6 01464-53-5 | Dibenz[a,h]anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane DibutyI phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene Dichloroethyl ether Dichloromethoxy ethane 2,4-Dichlorophenol 2,6-Dichlorophenol 1,3-Dichloroppene 1,2:3,4-Diepoxybutane (I,T) | |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U074 U075 U078 U079 U025 U025 U027 U024 U081 U081 U082 U084 U085 U108 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 00542-75-6 01464-53-5 00123-91-1 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane DibutyI phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene Dichloroethyle ther Dichloroethyl ether Dichloromethoxy ethane 2,4-Dichlorophenol 2,6-Dichlorophenol 1,3-Dichloroppene 1,2:3,4-Diepoxybutane (I,T) 1,4-Diethyleneoxide | |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U078 U075 U078 U079 U025 U025 U027 U025 U027 U024 U081 U081 U082 U084 U085 U108 U108 U088 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 00542-75-6 01464-53-5 00123-91-1 00117-81-7 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene g-Dichlorobenzene 3,3'-Dichlorobenzene 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene Dichloroothyl ether Dichloromethoxy ethane 2,4-Dichloroppyl ether Dichloromethoxy ethane 2,4-Dichlorophenol 1,3-Dichloroppene 1,2:3,4-Diepoxybutane (I,T) 1,4-Diethyleneoxide Diethyleneoxide | |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U078 U075 U078 U079 U025 U027 U025 U027 U024 U081 U082 U084 U085 U108 U108 U028 U028 U028 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 00542-75-6 01464-53-5 00123-91-1 00117-81-7 01615-80-1 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzene 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethyle ther Dichlorostyl ether Dichloromethoxy ethane 2,4-Dichlorophenol 2,6-Dichlorophenol 1,3-Dichloroppene 1,2:3,4-Diepoxybutane (I,T) 1,4-Diethyleneoxide Diethylhexyl phthalate N,N'-Diethylhydrazine | · • |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U074 U075 U078 U079 U025 U027 U025 U027 U025 U027 U024 U081 U082 U084 U085 U108 U108 U086 U086 U087 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 00542-75-6 01464-53-5 00123-91-1 00117-81-7 01615-80-1 03288-58-2 | Dibenz(a,h)anthracene Dibenzo(a,i)pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzidine 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene Dichloroethyl ether Dichloromethoxy ethane 2,4-Dichloroppenol 2,6-Dichloroppenol 1,2:3,4-Diepoxybutane (I,T) 1,4-Diethyleneoxide Diethylhexyl phthalate N,N'-Diethylydrazine O,O-Diethyl S-methyl dithiophosphate | · • |
| U063 U064 U066 U069 U070 U071 U072 U073 U074 U075 U078 U075 U078 U079 U025 U027 U025 U027 U024 U081 U082 U081 U082 U084 U085 U108 U086 | 00053-70-3 00189-55-9 00096-12-8 00084-74-2 00095-50-1 00541-73-1 00106-46-7 00091-94-1 00764-41-0 00075-71-8 00075-35-4 00156-60-5 00111-44-4 00108-60-1 00111-91-1 00120-83-2 00087-65-0 00542-75-6 01464-53-5 00123-91-1 00117-81-7 01615-80-1 | Dibenz(a,h)anthracene Dibenzo[a,i]pyrene 1,2-Dibromo-3-chloropropane Dibutyl phthalate o-Dichlorobenzene m-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzene 1,4-Dichloro-2-butene (I,T) Dichlorodifluoromethane 1,1-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethyle ther Dichlorostyl ether Dichloromethoxy ethane 2,4-Dichlorophenol 2,6-Dichlorophenol 1,3-Dichloroppene 1,2:3,4-Diepoxybutane (I,T) 1,4-Diethyleneoxide Diethylhexyl phthalate N,N'-Diethylhydrazine | |

| Hazardous Waste | Chemical | | |
|--------------------|---------------|--|---|
| Number | Abstracts No. | Substance | |
| U090 | 00094586 | Dihydrosafrole | |
| U091 | 00119-90-4 | 3,3'Dimethoxybenzidine | |
| U092 | 00124-40-3 | Dimethylamine (1) | |
| U093 | 00060-11-7 | p-Dimethylaminoazobenzene | |
| U094 | 00057-97-6 | 7,12-Dimethylbenz[a]anthracene | |
| U095 | 00119-93-7 | 3.3'-Dimethylbenzidine | |
| U096 | 00080-15-9 | alpha, alpha-Dimethylbenzylhydroperoxide (R) | |
| U097 | 00079-44-7 | Dimethylcarbamoyl chloride | |
| U098 | 00057-14-7 | I, I-Dimethylhydrazine | |
| U099 | 00540-73-8 | I,2-Dimethylhydrazine | • |
| U101 | 0010567-9 | 2,4-Dimethylphenol | |
| U102 | 00131-11-3 | Dimethyl phthalate | |
| U103 | 00077-78-1 | Dimethyl sulfate | |
| U105 | 00121-14-2 | 2,4-Dinitrotoluene | |
| U106 | 00606-20-2 | 2.6-Dinitrotoluene | |
| U107 | 00117-84-0 | Di-n-octyl phthalate | |
| U108 | 00123-91-1 | I,4-Dioxene | |
| U109 | 00122-66-7 | 1,2-Diphenylhydrazine | |
| U110 | 00142-84-7 | Dipropylamine (I) | |
| UIII | 00621-64-7 | Di-n-propylnitrosamine | |
| U041 | 00105-89-8 | Epichlorohydrin | |
| U001 | 00075-07-0 | Ethanal (I) | |
| U174 | 00055185 | Ethanzmine, N-ethyl-N-ritroso- | |
| UI55 | 00091-80-5 | 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)- | |
| U067 | 00106-93-4 | Ethane, 1,2-dibromo- | |
| U076 | 00075343 | Ethane, 1,1-dichloro- | |
| U077 | 00107-06-2 | Ethane, 1,2-dichloro- | |
| U131 | 00067-72-1 | Ethane, hexachloro- | |
| U024 | 00111-91-1 | Ethane, 1,1'-(methylenebis(oxy))bis{2-chloro- | |
| U117 | 00060297 | Ethane, 1,1'-oxybis-(I) | |
| U025 | 00111-44-4 | Ethane, 1,1'-oxybis[2-chloro- | |
| U184 | 00076-01-7 | Ethane, pentachloro- | |
| U208 | 00630206 | Ethane, 1,1,1,2-tetrachloro- | |
| U209 | 00079-34-5 | Ethane, 1,1,2,2-tetrachloro- | |
| U218 | 00062-55-5 | Ethanethioamide | |
| U226 | 00071556 | Ethane, 1,1,1-trichloro- | |
| U227 | 00079-00-5 | Ethane, 1,1,2-trichloro- | |
| U359 | 00110805 | Ethanol, 2-ethoxy- | |
| U173 | 01116-54-7 | Ethanol, 2,2'-(nitrosolmino)bis- | |
| U004 | 00098-86-2 | Ethanone, I-phenyl- | |
| U043 | 00075014 | Ethene, chloro- | |
| U042 | 00110-75-8 | Ethene, (2-chloroethoxy)- | |
| U078 | 00075354 | Ethene, 1,1-dichloro- | |
| U079 | 00156605 | Ethene, 1,2-dichloro-, (E)- | |
| U210 | 00127184 | Ethene, tetrachloro- | |
| U228 | 00079-01-6 | Ethene, trichloro- | |
| U[12 | 00141786 | Ethyl acetate (I) | |
| U113 | 00140885 | Ethyl acrylate (1) | |
| U238 | 00051796 | Ethyl carbamate (urethane) | |
| U117 | 00060297 | Ethyl ether (l) | |
| U114 | 1 00111-54-6 | Ethylenebisdithiocarbamic acid, salts & esters | |
| U067 | 00106934 | Ethylene dibromide | |
| U077 | 00107-06-2 | Ethylene dichloride | |
| U359 | 00110-80-5 | Ethylene glycol monoethyl ether | |
| U115 | 00075-21-8 | Ethylene oxide (I.T) | |
| U116 | 00096-45-7 | Ethylenethiourea | |
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00075-34-3

Ethylidene dichloride

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| Hazardous | | |
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| Waste | Chemical | |
| Number | Abstracts No. | Substance |
| U118 | 00097-63-2 | Ethyl methacrylate |
| U119 | 00062-50-0 | Ethyl methanesulfonate |
| U120 | 00206-44-0 | Fluoranthene |
| U122 | 00050-00-0 | Formaldehyde |
| UI23 | 00064186 | Formic acid (C,T) |
| U124 | 00110-00-9 | Furan (I) |
| U125 | 00098-01-1 | 2-Furancarboxaldehyde (1) |
| U147 | 00108-31-6 | 2,5-Furandione |
| U213 | 00109-99-9 | Furan, tetrahydro(I) |
| U125 | 00098-01-1 | Furfural (I) |
| U124 | 00110-00-9 | 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 | 00765-34-4 | Glycidylaldehyde |
| U163 | 00070-25-7 | Guanidine, N-methyl-N'-nitro-N-nitroso- |
| U127 | - 00118-74-1 | Hexachlorobenzene |
| U128 | 00087683 | Hexachlorobutadiene |
| U130 | 00077-47-4 | Hexachlorocyclopentadiene |
| U131 | 0006772-1 | Hexachloroethane |
| U132 | 00070304 | Hexachlorophene |
| U243 | 01888-71-7 | Hexachloropropene |
| U133 | 00302-01-2 | Hydrazine (R,T) |
| U086 | 01615-80-1 | Hydrazine, 1,2-diethyl- |
| U098 | 00057-14-7 | Hydrazine, 1,1-dimethyl- |
| U099 | 00540-73-8 | Hydrazine, 1,2-dimethyl- |
| U109 | 00122-66-7 | Hydrazine, 1,2-diphenyl- |
| U134 | 07664-39-3 | Hydrofluoric acid (C.T) |
| U134 | 07664-39-3 | Hydronione acid (C.T) |
| U135 | | • • • • |
| | 07783064 | Hydrogen sulfide |
| U135 | 07783-06-4 | Hydrogen sulfide H2S |
| U096 | 00080-15-9 | Hydroperoxide, 1-methyl-1-phenylethyl- (R) |
| U116 | 00096-45-7 | 2-Imidazolidinethione |
| U137 | 00193-39-5 | Indeno[1,2,3-cd]pyrene |
| U190 | 00085-44-9 | 1,3-Isobenzofurandione |
| U140 | 00078-83-1 | Isobutyl alcohol (I,T) |
| U141 | 00120-58-1 | Isosafrole |
| U142 | 00143-50-0 | Керопе |
| U143 | 00303-34-4 | Lasiocarpine |
| U144 | 00301-04-2 | Lead acetate |
| U146 | 01335-32-6 | Lead, bis(acetato-O)tetrahydroxytri- |
| U145 | 07446-277 | Lead phosphate |
| U146 | 01335-32-6 | Lead subacetate |
| U129 | 00058-89-9 | Lindane |
| U163 | 00070-25-7 | MNNG |
| U147 | 00108316 | Maleic anhydride |
| UI48 | 00123-33-1 | Maleic hydrazide |
| U149 | 00109-77-3 | Malononitrile |
| U150 | 00148-82-3 | Melphalan |
| U151 | 07439-97-6 | Mercury |
| U152 | 00126-98-7 | Methacrylonitrile (I, T) |
| U092 | 00124-40-3 | Methanamine, N-methyl- (I) |
| U029 | 00074-83-9 | Methane, bromo- |
| U045 | 00074873 | Methane, chloro- (I, T) |
| U046 | 00107302 | Methane, chloromethoxy- |
| U068 | 00074-95-3 | Methane, dibromo- |
| U080 | 00075-092 | Methane, dichloro- |
| U075 | 00075-71-8 | Methane, dichlorodifluoro- |
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| Hazardous Waste Number | Chemical Abstracts No. | Substance |
|------------------------------|----------------------------|--|
| U138 | 00074-88-4 | Methane, iodo- |
| U119 | 00062-50-0 | Methanesulfonic acid, ethyl ester |
| U211 | 00056-23-5 | Methane, tetrachloro- |
| U153 | 00074-93-1 | Methanethiol (I, T) |
| U225 | 00075-25-2 | Methane, tribromo- |
| U044 | 00067-66-3 | Methane, trichloro- |
| | 00075-69-4 | |
| U121 | 00057-74-9 | Methane, trichlorofluoro- 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro- |
| U036 | 00067-56-1 | |
| U154 U155 | 00091-80-5 | Methanol (I) Methapyrilene |
| U142 | 00143-50-0 | 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro- |
| U247 | 00072-43-5 | Methoxychlor |
| U154 | 00067-56-1 | Methyl alcohol (I) |
| U029 | 00074-83-9 | |
| | | Methyl bromide |
| U186 U045 | 00504-60-9 * 00074-87-3 | 1-Methylbutadiene (I) |
| | | Methyl chloride (I,T) |
| | 00079-22-1 | Methyl chlorocarbonate (I,T) |
| U226 | 00071-55-6 00056-49-5 | Methyl chloroform |
| U157 | | 3-Methylcholanthrene |
| U158 | 00101-14-4 | 4.4'-Methylenebis(2-chloroaniline) |
| U068 | 00074-95-3 | Methylene bromide |
| U080 | 00075-09-2 | Methylene chloride |
| U159 | 00078-93-3 | Methyl ethyl ketone (MEK) (I,T) |
| U160 | 01338-23-4 | Methyl ethyl ketone peroxide (R,T) |
| U138 | 00074-88-4 | Methyl iodide |
| U161 | 00108-10-1 | Methyl isobutyl ketone (I) |
| U162 | 00080-62-6 | Methyl methacrylate (I,T) |
| U161 | 00108-10-1 | 4-Methyl-2-pentanone (I) |
| U164 | 00056-04-2 | Methylthiouracii |
| U010 | 00050-07-7 | Mitomycin C |
| U059 U167 | 20830-81-3 00134-32-7 | 5,12-Naphthacenedione8-acetyl-10-{(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8.9,10-tetra- hydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)- 1-Naphthalenanune |
| U168 | 00091-59-8 | 2-Naphthalenamine |
| U026 | 00494-03-1 | Naphthalenamine, N,N'-bis(2-chloroethyl)- |
| U165 | 00091-20-3 | Naphthalene |
| U047 | 00091-58-7 | Naphinalene, 2-chloro- |
| U166 | 00130-15-4 | 1,4-Naphthalenedione |
| U236 | 00072-57-1 | 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'dimethy][1,1'-biphe- nyl]-4,4'-div])bis(azo)bis[5-amino-4-hydroxy]-,tetrasodium salt |
| U166 | 00130-15-4 | 1,4-Naphthoquinone |
| U167 | 00134-32-7 | alpha-Naohthylamine |
| U168 | 00091598 | beta-Naphthylamine |
| U217 | 10102-45-1 | Nitric acid, thallium(1+) salt |
| U169 | 00098953 | Nitrobenzene (I,T) |
| U170 | 00100027 | p-Nitrophenol |
| U171 | 00079-46-9 | 2-Nitropropane (I,T) |
| U172 | 00924-16-3 | N-Nitrosodi-n-butylamine |
| U173 | 01116-54-7 | N-Nitrosodiethanolamine |
| U174 | 00055185 | N-Nitrosodiethylamine |
| U176 | 00759739 | N-Nitroso-N-ethylurea |
| U177 | 0068493-5 | N-Nitroso-N-methylurea |
| U178 | 00615-53-2 | N-Niroso-N-methylurethane |
| U179 | 00100-75-4 | N-Nitrosopiperidine |
| U180 | 00930552 | N-Nitrosopyrtolidine |
| U181 | 00099558 | 5-Nitro-o-toluidine |
| U193 | 01120-71-4 | 1,2-Oxathiolane, 2,2-dioxide |
| U058 | 00050-18-0 | 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide |
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| Hazardous Waste Number | Chemical Abstracts No. | Substance | |
|------------------------------|---------------------------|---|--|
| U115 | 00075-21-8 | Oxirane (I,T) | |
| U126 | 00765-34-4 | Oxiranecarboxyaldehyde | |
| U041 | 00106898 | Oxirane, (chloromethy))- | |
| U182 | 00123-63-7 | | |
| U183 | | Paraldehyde | |
| U184 | 00608-93-5 | Pentachlorobenzene | |
| | 00076-01-7 | Pentachloroethane | |
| U185 | 00082-68-8 | Pentachloronitrobenzene (PCNB) | |
| See F027 | 00087865 | Pentachlorophenol | |
| U161 | 00108-10-1 | Pentanol, 4-methyl- | |
| U186 | 00504-60-9 | 1,3-Pentadiene (I) | |
| U187 | 00062-44-2 | Phenacetin | |
| U188 | 00108-95-2 | Phenol | |
| U048 | 00095-57-8 | Phenol, 2-chloro- | |
| U039 | 00059-50-7 | Phenol, 4-chloro-3-methyl- | |
| U081 | 00120-83-2 | Phenol, 2,4-dichloro- | |
| U082 | 00087-65-0 | Phenol, 2,6-dichloro- | |
| U089 | 00056531 | Phenol, 4,4'-(1,2-diethyl-1.2-ethenediyl)bis-, (E)- | |
| U101 | 00105679 | Phenol, 2,4-dimethyl- | |
| U052 | 01319-77-3 | Phenol, methyl- | |
| U132 | 00070-30-4 | Phenol, 2,2'-methylenebis[3,4,6-trichloro- | |
| U170 | 00100027 | Phenol, 4-nitro- | |
| See F027 | 00087-86-5 | Phenol, pentachloro- | |
| See F027 | 00058-90-2 | Phenol, 2,3,4,6-tetrachloro- | |
| See F027 | 00095-95-4 | Phenol, 2,4,5-trichloro- | |
| See F027 | 00088-06-2 | Phenol, 2,4,6-trichloro- | |
| U150 | 00148-82-3 | L-Phenylalanine, 4-(bis(2-chloroethyl)amino]- | |
| U145 | 07446-27-7 | Phosphoric acid, lead(2+) salt (2:3) | |
| U087 | 03288-58-2 | Phosphorodithioic acid, O,O-diethyl S-methyl ester | |
| U189 | 01314-80-3 | Phosphorus sulfide (R) | |
| U190 | 00085-44-9 | Phthalic anhydride | |
| U191 | 00109068 | 2-Picoline | |
| U179 | 00100-75-4 | Piperidine, 1-nitroso- | |
| U192 | 23950-58-5 | Pronamide | |
| U194 | 00107108 | 1-Propanamine (I,T) | |
| U111 | 00621-64-7 | 1-Propanamine, N-nitroso-N-propyi- | |
| U110 | 00142-84-7 | 1-Propanamine, N-propyl- (1) | |
| U066 | 00096-12-8 | Propane, 1,2-dibromo-3-chloro- | |
| U083 | 00078875 | Propane, 1,2-dichloro- | |
| U149 | 00109-77-3 | Propanedinitrile | |
| U171 | 00079-46-9 | Propane, 2-nitro- (I,T) | |
| U027 | 00108-60-1 | Propane, 2,2'-oxybis[2-chloro- | |
| U193 | 01120-71-4 | 1,3-Propane sultone | |
| See F027 | 00093721 | Propanoic acid, 2-(2,4.5-trichlorophenoxy)- | |
| U235 | 00126-72-7 | I-Propanol, 2,3-dibromo-, phosphate (3:1) | |
| U140 | 0007883I | 1-Propanol, 2-methyl- (I,T) | |
| U002 | 00067-64-1 | 2-Propanone (1) | |
| U007 | 00079-06-1 | 2-Propenamide | |
| U084 | 00542756 | 1-Propene, I.3-dichloro- | |
| U243 | 01888717 | 1-Propene, 1,1,2,3,3,3-hexachloro- | |
| U009 | 00107-13-1 | 2-Propenenitrile | |
| U152 | 00126-98-7 | 2-Propenenitrile, 2-methyl- (I,T) | |
| U008 | 00079-10-7 | 2-Propenoic acid (I) | |
| U113 | 00140-88-5 | 2-Propenoic acid, ethyl ester (1) | |
| U118 | 00097-63-2 | 2-Propenoic acid, 2-methyl-, ethyl ester | |
| U162 | 00080-62-6 | 2-Propenoic acid, 2-methyl-, methyl ester (I,T) | |
| U194 | 00107-10-8 | n-Propylamine (I,T) | |
| U083 | 00078-87-5 | Propylene dichloride | |
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| Hazardous Waste | Chemical | |
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| Number | Abstracts No. | Substance |
| U148 | 00123-33-1 | 3,6-Pyridazinedione, 1,2-dihydro- |
| U196 | 00110861 | Pyridine |
| U191 | 00109-06-8 | Pyridine, 2-methyl- |
| U237 | 00066-75-1 | 2.4-(IH.3H)-Pyrimidinedione. 5-(bis(2- chloroethyl)amino)- |
| U164 | 00056-04-2 | 4 (1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo- |
| U180 | 00930-55-2 | Pyrrolidine, 1-nitroso- |
| U200 | 00050-55-5 | Reserpine |
| U201 | 00108-46-3 | Resorcinol |
| U202 | 00081-07-2 | Saccharin, & salts |
| U203 | 00094-59-7 | Safrole |
| U204 | 07783008 | Selenious acid |
| U204 | 07783-00-8 | Selenium dioxide |
| U205 | 07488-56-4 | Selenium sulfide |
| U205 | 07488-56-4 | Selenium sulfide SeS2 (R.T) |
| U015 | 00115026 | L-Serine, diazoacetate (ester) |
| See F027 | · 00093-72-1 | Silvex (2,4,5-TP) |
| U206 | 18883-66-4 | Streptozotocin |
| U103 | 00077-78-1 | Sulfuric acid, dimethyl ester |
| U189 | 01314-80-3 | Sulfur phosphide (R) |
| See F027 | 00093765 | 2,4,5-T |
| U207 | 00095-94-3 | 1.2.4.5-Tetrachlorobenzene |
| U208 | 00630-20-6 | 1,1,1,2-Tetrachloroethane |
| U209 | 00079-34-5 | I,1,2,2-Tetrachloroethane |
| U210 | 00127-18-4 | Tetrachloroethylene |
| See F027 | 00058-90-2 | 2,3,4,6-Tetrachlorophenol |
| U213 | 00109-99-9 | Tetrahydrofuran (I) |
| U214 | 00563688 | Thallium(I) acetate |
| U215 | 06533-73-9 | Thallium(1) carbonate |
| U216 | 07791-12-0 | Thallium(I) chloride |
| U216 | 07791-12-0 | Thallium chloride TICI |
| Ų217 | 10102-45-1 | Thallium(I) nitrate |
| U218 | 00062-55-5 | Thioacetamide |
| U153 | 00074931 | Thiomethanol (I,T) |
| U244 | 00137-26-8 | Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl- |
| U219 | 00062-56-6 | Thiourea |
| U244 | 00137268 | Thiram |
| U220 | 00108 | Toluene |
| U221 | 25376-45-8 | Toluenediamine |
| U223 | 26471-62-5 | Toluene diisocyanate (R,T) |
| U328 | 00095-53-4 | o-Toluidine |
| U353 | 00106490 | p-Toluidine |
| U222 | 00636215 | o-Toluidine hydrochloride |
| U011 | 00061825 | 1H-1,2,4-Triazol-3-amine |
| U227 | 00079005 | 1.1,2-Trichloroethane |
| U228 | 00079-01-6 | Trichloroethylene |
| U121 | 00075694 | Trichloromonofluoromethane |
| See F027 | 00095954 | 2,4,5-Trichlorophenol |
| See F027 | 00088062 | 2,4,6-Trichlorophenol |
| U234 | 00099354 | 1,3,5-Trinitrobenzene (R,T) |
| U182 | 00123-63-7 | 1,3,5-Trioxane, 2,4,6-trimethyl- |
| U235 | 00126-72-7 | Tris(2,3-dibromopropyl) phosphate |
| U236 | 00072-57-1 | Trypan blue |
| U237 | 00066-75-1 | Uracil mustard |
| U176 | 00759-73-9 | Urea, N-ethyl-N-nitroso- |
| U177 | 00684-93-5 | Urea, N-methyl-N-nitroso- |
| U043 | 00075014 | Vinyl chloride |
| U248 | 1 00081-81-2 | Warfarin, & salts, when present at concentrations of 0.3% or less |
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| Hazardous Waste Number | Chemical Abstracts No. | Substance |
|------------------------------|---------------------------|---|
| U239 | 01330207 | Xylene (I) |
| U200 | 00050-55-5 | Yohimban–16-carboxylic acid11,17-dimethoxy–18–[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,(3beta,16beta,17alpha,18beta,20alpha)- |
| U249 | 01314-84-7 | Zinc phosphide Zn3P2, when present at concentrations of 10% or les |

1 CAS Number given for parent compound only.

1 CAS Number given for parent compound only. History: Cr. Register, February, 1991, No. 422, eff. 3–1–91; am. (1) (b) 4., (2) (a) Table II and (3) (a) 3, Register. August, 1992, No. 440, eff. 9–1–92; correction in (2) (a) Table II made under s. 13.93 (2m) (b), 7., Stats., Register, March, 1993, No. 447; am. (1) (b), (2) (a) Table II Entries F003, F019, F024, F026, F500, (2) (b) Table III Secondary Lead Group Entry K069, Ink Formulation Group Entry K086, cr. (2) (a) Table II Entries F025, F032, F034, F035, F037, F038, (2) (b) Table III Organic Chemical Group Entries K107, K108, K109, K110, K149, K150, K151, Pesticides Group Entries K131, K132, Primary Copper Group Entry K064, Primary Lead Group Entries K065, Primary Zine Group Entries K141, K142, K143, K144, K145, K147, K148, r. and recr. (3) (b) Table IV, (3) (c) Table V, Register, May, 1995, No. 473, eff. 6–1–95. 473, eff. 6-1-95.

NR 605.10 Procedures for modifying the hazardous waste lists. (1) (a) Any person seeking to delist either a waste listed in s. NR 605.09 or a waste produced at a particular generation site from the hazardous waste lists in s. NR 605.09 which is also listed as a hazardous waste in the federal regulations promulgated by the EPA under 42 USC 6921 (b) shall petition the EPA to delist that waste.

Note: The publication containing Title 42 of the United States Code may be obtained from:

The Superintendent of Documents

U.S. Government Printing Office Washington, D.C. 20402

(b) If EPA denies a petition for delisting, the department shall recognize that denial.

(c) Persons who have had their petition for delisting approved by EPA shall continue to manage their wastes in compliance with any applicable restrictions established under chs. NR 600 to 685 unless and until the department recognizes EPA's delisting approval. A person may petition the department to recognize an EPA delisting by submitting the following to the department:

1. Copies of all materials and information submitted to EPA concerning the delisting petition.

2. Copies of all materials and information received from EPA, including the EPA notice of delisting.

3. All other information that the department determines is necessary to evaluate the delisting petition.

(d) When determining whether or not to recognize an EPA granted delisting, the department shall:

1. Consider all available information including, but not limited to, the information submitted by the applicant to EPA; and

2. Apply the same criteria as applied by EPA under 40 CFR 260.22 as of July 1, 1990.

Note: The publication containing the CFR references may be obtained from: The Superintendent of Documents

U.S. Government Printing Office

Washington, D.C. 20402

(e) The department shall recognize an EPA granted delisting unless the department clearly establishes that a delisting would threaten human health or the environment.

2) Any person seeking to exclude a waste from the hazardous waste lists in s. NR 605.09 or a waste produced at a particular generation site which is not listed as a hazardous waste in the federal regulations promulgated by the EPA under 42 USC 6921 (b) shall petition the department to delist that waste. The department shall either deny the petition in writing or proceed with rulemaking to delist the waste from the hazardous waste lists in s. NR 605.09.

(3) If the EPA deletes a hazardous waste from the hazardous waste lists in the federal regulations promulgated by the EPA under 42 USC 6921 (b), the department shall proceed with rulemaking to either delete the waste from the hazardous waste lists in s. NR 605.09 or retain it. The department may retain the waste on the hazardous waste lists in s. NR 605.09 if the department determines that the waste has characteristics which identify it as a hazardous waste based on the criteria in ss. NR 605.07 and 605.08 and if the department determines that the retention is necessary to protect public health, safety or welfare. The department shall issue specific findings and conclusions on which its determination is based.

(4) If EPA deletes a hazardous waste from a particular generation site from the hazardous waste lists in the federal regulations promulgated by EPA under 42 USC 6921 (b), the department may not regulate under chs. NR 600 to 685 those wastes that have been deleted.

(5) If the EPA adds an additional solid waste to the hazardous waste lists in the federal regulations promulgated by the EPA under 42 USC 6921 (b), the department shall regulate the additional waste as a hazardous waste under chs. NR 600 to 685 as soon as EPA's action becomes final and shall proceed with rulemaking to adopt identical changes in s. NR 605.09.

(6) The department may include, or a person may petition the department to include, on the hazardous waste lists in s. NR 605.09 any additional solid waste which is not included on the hazardous waste lists in the federal regulations promulgated by the EPA under 42 USC 6921 (b) if the department determines that the solid waste has characteristics which identify it as a hazardous waste based on the criteria in ss. NR 605.07 and 605.08 and if the department determines that the inclusion is necessary to protect public health, safety or welfare. The department shall issue specific findings and conclusions on which its determination is based and shall include the additional solid waste on the lists of hazardous waste in s. NR 605.09 by rule.

Note: For the purpose of this section, petitions under subs. (2) and (6) are petitions for rules under s. 227.12, Stats. The publication containing Title 42 of the United States Code may be obtained from: The Superintendent of Documents

U.S. Government Printing Office Washington, D.C. 20402

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91; renum. (1) to be (1) (a), cr. (1) (b) to (c), Register, August, 1992, No. 440, eff. 9-1-92.

NR 605.12 Analytical methods. (1) Chemical and physical samples shall be analyzed by a laboratory certified or registered under ch. NR 149. The following tests are excluded from this requirement:

(a) Physical tests of soil,

(b) Air quality tests,

- (c) Gas tests,
- (d) Field pH tests,
- (e) Field conductivity,
- (f) Turbidity tests,
- (g) Water elevation,
- (h) Temperature,
- Leachate-liner compatibility testing.

(2) Bacteriological and radiological samples shall be analyzed by the state laboratory of hygiene or at a laboratory approved or certified by the department of health and social services.

(3) Other chemical and physical samples shall be analyzed by a laboratory certified or registered under ch. NR 149. The department may allow, on a case-by-case basis, facilities to submit analytical test results from a laboratory that has not been certified,

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registered or approved by the department or the department of health and social services.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91.

NR 605.13 PCB wastes regulated under toxic substances control act. The disposal of PCB containing dielectric fluid and electric equipment containing such fluid authorized for use and regulated under 40 CFR 761, July 1, 1992, and that are hazardous only because they fail the test for the toxicity characteristic, hazardous waste codes D018 to D043 only, are exempt from regulation under chs. NR 600 to 685.

Note: The publication containing the CFR references may be obtained from: Superintendent of Documents

U.S. Government Printing Office

PO Box 371954 Pittsburgh, PA 15250-7954 (202) 783-3238

Note: The management of PCBs and products containing PCBs is regulated under ch. NR 157.

History: Cr. Register, August, 1992, No. 440, eff. 9-1-92; am. Register, May, 1995, No. 473, eff. 6-1-95.

NR 605.14 Listing specific definitions. (1) (a) For the purposes of the F037 and F038 listings, aggressive biological treatment units are defined as units which employ one of the following 4 treatment methods: activated sludge; trickling filter; rotating biological contactor for the continuous accelerated biological oxidation of wastewaters or high-rate aeration. High-rate aeration is a system of surface impoundments or tanks, in which intense mechanical aeration is used to completely mix the wastes, enhance biological activity and the units employ a minimum of 6 hp per million gallons of treatment volume; and either:

1. The hydraulic retention time of the unit is no longer than 5 days, or

2. The hydraulic retention time is no longer than 30 days and the unit does not generate a sludge that is a hazardous waste by the toxicity characteristic.

(b) 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 shall maintain, in their operating or other onsite records, documents and data sufficient to prove that:

1. The unit is an aggressive biological treatment unit as defined in this section; and

2. The sludges sought to be exempted from the definitions of F037 or F038 were actually generated in the aggressive biological treatment unit.

(2) (a) For the purposes of the F037 listing, 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.

(b) For the purposes of the F038 listing,

 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

2. Floats are considered to be generated at the moment they are formed in the top of the unit.

History: Cr. Register, May, 1995, No. 473, eff. 6-1-95,