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, 1,1,1trichloroethane, 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 well-maintained pump packings and seals; sample purgings; relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment, and rinsate from empty containers or from containers that are rendered empty by that rinsing; or

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) (l) 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 steel industry 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 selfimplementing 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.

`	Maximum for any
Constituent	single composite sample-TCLP (mg/l)

Generic exclusion levels for K061 and K062 nonwastewater HTMR residues

	0.10	
-	0.50	
	7.6	
	0.010	
	0.050	
(total)	0.33	
and the second second second second	0.15	
· · · · ·	0.009	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1.0	
	0.16	
	0.30	
	0.020	
	70	
	- (total)	- 0.10 0.50 7.6 0.010 0.050 0.33 0.15 0.009 1.0 0.16 0.30 0.20 70

Generic exclusion levels for F006 nonwastewater HTMR residues

Antimony	0.10
Arsenic	0.50
Barium	7.6
Beryllium	0.010
Cadmium	0.050
Chromium (total)	0.33
Cyanide (total) (mg/kg)	1.8
Lead	0.15
Mercury	0.009
Nickel	1.0
Selenium	0.16
Silver	0.30
Thallium	0.020
Zinc	70
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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 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:

a 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.

b. 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 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.

(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:

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(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), Register, 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.

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(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 arsenicaltreated 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.

(g) Drilling fluids, produced waters, and other wastes 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 the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or waste generators that:

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

2. 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.

(i) 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 throughthe-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; throughthe-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.

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

(j) 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;

3. 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;

13. Iron blast furnace slag;

14. Treated residue from roasting or leaching of chrome ore;

15. Process wastewater from primary magnesium processing by the anhydrous process;

16. 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;

20. Slag from primary zinc processing.

(1) Until September 30, 1990, bottom ash waste, fly ash waste, slag waste and flue gas emission control waste generated from the combustion of municipal solid waste. After September 30, 1990, bottom ash waste, fly ash waste, slag waste and flue gas emission control waste generated from the combustion of municipal solid waste at a facility approved by the department under s. NR 502.14.

(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 origi-

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nally 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 by-products 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-terne 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 require-Register, May, 1995, No. 473 ments 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 MATE-RIAL 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 FOLLOWING 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 gener(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 termination 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.

6. 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.

10. 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;

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

4. Stored in a laboratory before testing;

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

6. 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

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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; Register, May, 1995, No. 473 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);

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

3. 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:

1. Copies of the manifest and any other required shipping documents;

2. 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 caseby-case basis, for quantity limits in excess of those specified in sub. (9) (a), for up to an additional 500 kg of nonacute 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

4. 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 LABORATORIES 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:

3. 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.

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(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

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) (e), (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., (1m) (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), (w), (w), (x), (6), Register, May, 1995, No. 473, eff. 6-1-95.

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 container, 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 Register, May, 1995, No. 473 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) CRITE-RIA 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:

1. 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:

1. 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

2. 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 nonharmful 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:

1. 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 recordkeeping 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:

1. 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.

3. 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:

1. 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.

2. 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 reactivity has the hazardous waste number of D003.

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(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 secretary 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	7440-38-2	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	0056-23-5	0.5
D020	Chlordane	0057-74-9	0.03
D021	Chlorobenzene	0108-90-7	100.0
D022	Chloroform	0067-66-3	6.0
D007	Chromium	7440-47-3	5.0
D023	o-Cresol	0095-48-7	4 200.0
D024	m-Cresol	0108-39-4	4 200.0
D025	p-Cresol	0106-44-5	4 200.0
D026	Cresol		⁴ 200.0
D016	2,4-D	0094-75-7	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	³ 0.13
D012	Endrin	0072-20-8	0.02
D031	Heptachlor (and its epox- ide)	0076-44-8	0.008
D032	Hexachlorobenzene	0118-74-1	³ 0.13
D033	Hexachlorobutadiene	0087-68-3	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	³ 5.0

EPA HW No.1	Contaminant	CAS No.2	Regulatory Level (mg/L)
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	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

¹ Hazardous waste number.

² Chemical abstracts service number.

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

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

Hazardous Waste from Nonspecific Sources					
Hazardous Waste Number	Hazardous Waste	Hazard Code			
Generic:					
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1- trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all mixtures and blends of spent solvents used in degreas- ing 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, chlorobenzene, 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, F004 or F005; and still bottoms from the recovery of these spent solvents and spent solvents may be a solvent mixtures.	(T)			
• F003	The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ke- tone, n-butyl alcohol, cyclohexanone and methanol; all mixtures and blends of spent solvents containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents and a total of 10% or more, by volume, of one or more of those solvents listed in F001, F002, F004 and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I)*			
F004	The following spent non-halogenated solvents: cresols, cresolic acid, and nitrobenzene; 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 and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)			
F005	The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2- ethoxyethanol and 2-nitropropane; all 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)			
F006	Wastewater treatment sludges from electroplating operations, except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating, segregated basis, on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning 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 common and 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)			

(R, 1) Register, May, 1995, No. 473

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	NP	COS

N	R 605.09	
Hazardou: Waste Number	Hazardous Waste	Hazard Code
F008	Plating bath residues from the bottom of plating baths from electroplating operations where granides are used in the process	(P. 17)
F009	Spent stripping and cleaning bath solutions from electronlating operations where evanides are used in the process.	(R.T.)
F010	Overching bath residues from oil baths from metal heat treating operations where evaluates are used in the process.	(RT)
F011	Spent qualities from self both not decompany from metal best treating operations	(RT)
F012	Spense of and obtained that the the the set of the set	(AL, I) (TI)
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in alumi- num can washing when such phosphating is an exclusive conversion coating process	(T)
F020	Wastes, except wastewater and spent carbon from hydrogen chloride purification, from the production or manufacturing use, as a reactant, chemical intermediate or component in a formulating process, of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. This listing does not include wastes from the production of hexachlorophene from highly purified 2,4,5-trichlorophenol.	(H)
F021	Wastes, except wastewater and spent carbon from hydrogen chloride purification, from the production or manufacturing use, as a reactant, chemical intermediate or component in a formulating process, of pentachlorophenol, or of intermediates used to produce its derivatives.	(H)
F022	Wastes, except wastewater and spent carbon from hydrogen chloride purification, from the manufacturing use, as a reactant, chemical intermediate or component in a formulating process, of tetra-, penta-, or hexa-chlorobenzenes under alkaline condi- tions.	(H)
F023	Wastes, except wastewater and spent carbon from hydrogen chloride purification, from the production of materials on equip- ment previously used for the production or manufacturing use, as a reactant, chemical intermediate or component in a formu- lating process, of tri- and tetrachlorophenols. This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.	(H)
F024	Process wastes, including but not limited to, distillation residues, heavy ends, tars and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to 5, with varying amounts and positions of chlorine substitu- tion. This listing does not include wastewaters wastewater treatment chadges next catalyzets and wastes listed in sub (2) (a)	(T)
	or (b).	
F025	Condensed light ends, spent filters and filter aids and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengthe ranging from one to and including from with maxime amounts and positions of chloring substitution	(T)
F026	Wastes expent wastewater and spant carbon from hudrogen chloride nurfication from the production of materials on equin	(ጥ)
1020	ment previously used for the manufacturing use, as a reactant, chemical intermediate or component in a formulating process, of tetra-, penta- or hexachlorobenzene under alkaline conditions.	an Winner Staffensen
F027	Discarded, used or unused formulations containing tri-, tetra-or pentachlorophenol 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 sole component.	(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 drip- page and spent formulations from wood preserving processes generated at plants that currently use or have previously used	(T)
···	chlorophenolic formulations (except potentially cross-contaminated wastes that have had the FU32 waste code deleted in accor- dance 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	1.1.2
	not include K001 bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote or pentachlorophenol.	
F034	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drip- page and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of 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 drin-	(TT)
	page 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 creosote or pentachlorophenol.	(1)
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 conveyances; sumps and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segre- gated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as	
	defined in s. NR 605.15 (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing.	178 ¹ 9 ²
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 treatment units as defined in s. NR 605.15 (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048 and K051 wastes are not included in this listing.	(T)
F039	Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified by more than one waste code under s. NR 605.09, or from a mixture of wastes classified as hazardous under s. 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)

Hazardou	15	
Waste	YT	Hazard
	Hazardous waste	Code
F500	Waste containing the halogenated compounds tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene and 1,2-dichloroethylene at greater than 1% (10,000 npm). This listing includes	(T)
	any combination of the above named halogenated compounds where the total chloride concentration or the sum of the concen-	
	trations of the individual compounds exceeds 1% or 10,000 ppm on a weight to weight basis. Halogenated compounds concen-	
	tration shall be determined using LFA methods S010A, S021, S240A or S260 for volatile organics in SW-846, "lest Methods for Evaluating Solid Waste Physical/Chemical Methods" third edition Sentember 1966 as argended by undet a lin Lukr 1002 or	
	total chloride analysis of bomb washings from ASTM D 240-92. "Standard Test Method for Heat of Combustion of Liouid	
	Hydrocarbon Fuels by Bomb Calorimeter".	
		1.0
Note:	* (I,T) should be used to specify mixtures containing ignitible and toxic constituents	
Note: exempt fr	Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic or meets this hazardous wast om hazardous waste regulation under s. NR 605.05 (1) (q). Such used oil is instead regulated under ch. NR 590.	æ listing i
Note:	Used chlorofluorocarbon refrigerants that are reclaimed for further use are exempt from hazardous waste regulation under s. NR 605	5.05 (1) (r
Note:	Publication SW-846 may be obtained from:	
Supe	rintendent of Documents	
U.S.	Government Printing Office	
P.O.	Box 371954	
(202)	783-3238	
The pu	blication containing the ASTM method may be obtained from:	
Amer	ican Society for Testing and Materials	
1916	Race Street	
Phila	delphia, PA 19103-1187	
(215)		
These p	publications are available for inspection at the offices of the department, the secretary of state and the revisor of statutes.	
(b) So	lid waste from specific sources is a hazardous waste if it is listed in table III.	" +.1
17 N		
	Hazardous Waste from Specific Sources	
Hazardous		
Number	Hazardous Waste	Code
Wood Pres	ervation	
K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote or pentachlorophenol.	(T)
Inorganic]	Pigments	
K002	Wastewater treatment sludge from the production of chrome vellow and owners nigments	(71)
K003	Wastewater treatment shares from the production of moleydate orange premises.	(1) (T)
K004	Wastawatar treatment shuge from the production of nine value nine profiles	
1005	Wastewater treatment studge from the production of zinc yenow programs	(1)
TOOS	Wastewater treatment shuge from the production of chrome green pigments.	(1)
12000	Wastewater treatment sludge from the production of chrome owned green pigments, annyarous and hydrated.	(1)
12000	wastewater treatment studge from the production of iron blue pigments.	(1)
A0000	Uven restaue from the production of chrome oxide green pigments.	(T)
Organic Cr	iemicais	
K009	Distillation bottoms from the production of acetaldehyde from ethylene.	(T)
K010	Distillation side cuts from the production of acetaldehyde from ethylene.	(T)
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.	(R, T)
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile.	(R, T)
K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.	(T)
K015	Still bottoms from the distillation of benzyl chloride.	(T)
K016	Heavy ends or distillation residues from the production of carbon tetrachloride.	(T)
K017	Heavy ends or still bottoms from the purification column in the production of epichlorohydrin	(T)
K018	Heavy ends from the fractionation column in ethyl chloride production.	(T)
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	(T)
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.	(T)
K021	Aqueous spent antimony catalyst waste from fluoromethanes production	(T)
K022	Distillation bottom tars from the production of phenol or acetone from cumene.	(T)
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.	(T)
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene	(T)
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.	(T)

(T)

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H	lazardous		
	Waste Number	Hazardous Waste	Hazard Code
-	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	(T) (T)
	K027	Centrifuge and distillation residues from toluene discovanate production	(R/TT)
	K028	Spent catalyst from the hydrochlorinator reactor in the production of 1 1 trichloroethane	(T)
	K029	Waste from the product stream stringer in the production of $1 + 1$ triple to the production.	(፲) (ጥ)
	K095	Distillation bottoms from the production of 1 1 1-trichloroethane	(T) (TT)
	K096	Heavy ends from the heavy ends column from the production of 1.1.1 triphlycopthane	(1)
	K030	Column bottoms or heavy ends from the combined production of trichlergethyleng and parchlergethyleng	(1)
	K083	Distillation bottoms from aniline production of antimotoentytene and perturbited prefere.	(1) (T)
	K103	Process residues from aniline extraction from the production of aniline	(1)
	K104	Combined wasterwater streams generated from nitrobargeneratory (aniline production	(1)
	K085	Distillation or fractionating column between the meduation of chloraborenes	(1) (T)
	K105	Senarated aqueous stream from the reactor product washing stor in the production of shlamborgenes	(1)
	K107	compared aqueous scient from the feature product washing step in the production of cinorobeneetes.	(1)
	K109	zines.	(0,1)
	K100	dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(1,1)
	KIU9	Spent filter cartridges from product purification from the production of 1,1-dimethylnydrazine (UDMH) from carboxylic acid hydrazides.	(T)
	RT10	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carbox- ylic acid hydrazides.	(T)
	K111	Product washwaters from the production of dinitrotoluene via nitration of toluene	(C T)
	K112	Reaction by product water from the drying column in the production of toleparticipation with hydrogenation of distratolypene	(U, 1) (T)
	K113	Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotheme.	(T)
	K114	Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenetion of dinitrately and	(TT)
	K115	Heave ends from the nurification of fully endiating in the production of taluandiamine via hydrogenetion of districtionene	(T) (T)
	K116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.	(T)
	K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene	(ጥ)
	K118	Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	(T)
	K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethere	(TT)
	K149	Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides and compounds with mixtures of these functional groups. This waste does not include still bottoms from the distillation of	(T)
	K150	Denzyl chloride. 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	(T)
]	K151	compounds with mixtures of these functional groups. Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters	(T)
		from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides and compounds with mixtures of these functional groups.	2
Pes	ticides		e de la companya de
]	K031	By-product salts generated in the production of MSMA and cacodylic acid.	(T)
1	K032	Wastewater treatment sludge from the production of chlordane.	(T)
]	K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	(T)
]	3034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	(T)
1	3097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane	(TT)
1	3035	Wastewater treatment sludges generated in the production of creasate	(T)
. 1	(036	Still bottoms from follower reclamation distillation in the production of disulfator	(1)
-	7037	Wastewater treatment sludges from the production of disulfation to disulfation.	(1)
	2038	Wastewate a dealers studges non alle production of institution	(1)
	2000	wastewater from the washing all sampling of profate production.	(I) (I)
- I T	2035	ruler take from the intration of the thyphosphorodition and in the production of phorate.	(1)
r	1040 2041	wastewater treatment sludge from the production of phorate.	(T)
r v	1041	Wastewater treatment sludge from the production of toxaphene.	(T)
r T	1098	Untreated process wastewater from the production of toxaphene	(T)
I I	1042	neavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	(T)
ŀ	1043	2,0-LJCRIOrophenol waste from the production of 2,4-D.	(T)
ł	2099	Untreated wastewater from the production of 2,4-D.	(T)
F	123 i	Process wastewater, including supernates, filtrates and washwaters, from the production of ethylenebisdithiocarbamic acid and ts salt.	(T)
K	124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	(C, T)
K	125 1 126 1	Filtration, evaporation and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts. Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithi- carbamic acid and its salts.	(T) (T)
ĸ	131 1	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.	(C,T)
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Hazardous Waste Number	Hazardous Waste	Hazard Code
K132	Spent absorbent and wastewater senarator solids from the production of methyl bromide	······
Explosives	spens assessed and masternate separator solids from the production of metry brounde	(1)
K044	Wastewater treatment sludges from the manufacturing and processing of explosives	(B)
K045	Spent carbon from the treatment of wastewater containing explosives	(R)
K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds	(TT)
K047	Pink or red water from TNT operations.	(R)
Petroleum	Refining	
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.	··· (TT)
K049	Slop 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.	(T)
K052	Tank bottoms, leaded, from the petroleum refining industry.	(T)
Iron and S	teel	/
K061	Emission control dust or sludge from the electric furnace primary production of steel	(17)
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 Co	pper	
K064	Acid plant blowdown slurry or sludge resulting from the thickening of blowdown slurry from primary copper production	(T)
Primary Le	ad an	. ,
K065 Primary Zir	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities	(T)
K066	Sludge from treatment of process wastewater or acid plant blowdown from primary zinc production	(T)
Primary Al	uminum	(*)
K088	Spent polliners from primary aluminum reduction.	(T)
Ferroalloys		(-)
K090	Emission control dust or sludge from ferrochromiumsilicon production.	(T)
K091	Emission control dust or sludge from ferrochromium production.	(T)
Secondary I	vead .	(-)
K069	Emission control dust or sludge from secondary lead smelting. This listing 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.	(TT)
Inorganic C	hemicals	(-)
K071	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used	(TT)
K073	Chlorinated hydrocarbon wastes from the purification step of the diaphragm cell process using graphite anodes in chlorine	(T)
	production	
K106	Wastewater treatment sludge from the mercury cell process in chlorine production.	(T)
Ink Formula	tion the second s	
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 i	harmaceuticals to the second	
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.	(T)
K102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
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 not limited to, collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar 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 rom the recovery of coke by-products produced from coal.	(T)
K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.	(T)
K147 '	far storage tank residues from coal tar refining.	(T)
K148 I	Residues from coal tar distillation, including but not limited to, still bottoms	(ጥ)

Note: The Standard Industrial Classification Manual may be obtained from

The Superintendent of Documents U.S. Government Printing Office Washington, 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-SPECIFICATION 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:

1. 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 (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 offspecification 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:

TT	an da tan sa sa sa Tan sa	Acute Hazardous Products and Manufactu	Commercial Chemical ring Chemical Interm	ediates		
Hazardo Waste Number	Chemical Abstracts No.	Substance	n an an an Arthur an Anna Arthur Anna Anna Anna Anna Anna Anna Anna Anna	·		
P023	00107-20-0	Acetaldehyde, chloro-			the second	
P002	00591-08-2	Acetamide, N-(aminothioxomethyl)-				
P057	00640-19-7	Acetamide, 2-fluoro-				1.1
P058	00062-74-8	Acetic acid, fluoro-, sodium salt				
P002	00591-08-2	1-Acetyl-2-thiourea				
P003	00107-02-8	Acrolein	and the second			
P070	00116-06-3	Aldicarb				
P004	00309-00-2	Aldrin	a testa e la tata da seco			
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	07803-55-6	Ammonium vanadate				
P099	00506-61-6	Argentate(1-), bis(cvano-C)-, potassiu	m		and the second second	
P010	07778-39-4	Arsenic acid H3AsO4				
P012	01327-53-3	Arsenic oride As2O3			en de la companya de	
P011	01303-28-2	Arsenic oxide As205				
P011	01303-28-2	Arsenic pentovide		and the second second	1. T	
P012	01327-53-3	Arsenic trioxide	And the second			
P038	00692-42-2	Arsine diethyl-	12 Action Contraction			
P036	00696-28-6	Arsonous dichloride nhenyl-				
P054	00151-56-4	Aziridino				
P067	00075-55-8	Aziridina 2-methyla	and the second		and a first state of the second state of the s	
P013	00542-62-1	Barium avanida			11 A.	
D024	00106-47-8	Banganamina 4-ablara-			12.11	
P077	00100-01-6	Banzanamina A-nitro.				
D028	00100-01-0	Benzene (shloromethyl)				
049	00051_49_4	1 9 Banzanodial A.[1 budgers 9 (mot)	hurlamino)sthull (P)			
D046	00001-40-4	Rongeneethenemine alphe alphe din	ay ian in Olethyij-, (R/-			
	VV 144-00-0	benzeneemananmie, aipiia,aipiia-um	10m131-			

Table IV

Waste	Chemical			
Number	Abstracts No.	Substance		· ·
P014	00108-98-5	Benzenethiol		
P001	¹ 00081-81-2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present 0.3%	at concentrations greate	r than
P028	00100-44-7	Benzyl chloride		
P015	07440-41-7	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	00592-01-8	Calcium cyanide		
P021	00592-01-8	Calcium cyanide Ca(CN)2	$(x_{i}) \in \mathcal{A}^{1}$	
P022	00075-15-0	Carbon disulfide	анан алан алан алан алан алан алан алан	
P095	00075-44-5	Carbonic dichloride		
P023	00107-20-0	Chloroacetaldehyde	ALC: NOT A	
P024	00106-47-8	p-Chloroaniline	1. A. 1973	
P026	05344-82-1	1-(o-Chlorophenyl)thiourea		
P027	00542-76-7	3-Chloropropionitrile	A. 13	
P029	00544-92-3	Copper cyanide	alle is a second	
P029	00544-92-3	Copper cyanide Cu(CN)	1. S. 19 1.	
P030		Cyanides (soluble cyanide salts), not otherwise specified		
P031	00460-19-5	Cyanogen	1. 1. 1. 1.	
P033	00506-77-4	Cyanogen chloride	the second second	
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		100
P041	00311-45-5	Diethyl-p-nitrophenyl phosphate		
P040	00297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate	and the second	
P043	00055-91-4	Diisopropylfluorophosphate (DFP)		
P004	00309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a,-hexahydro-, (1 4abeta,5alpha,8alpha,8abeta)-	alpha,4alpha,	
P060	00465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (14 4abeta,5beta,8beta,8abeta)-	ulpha,4alpha,	
P037	00060-57-1	2,7:3,6-Dimethanonaphth[2,3-b]oxirene 3,4,5,6,9,9-hexachloro-1a, 2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta, 2aalpha,3beta,6beta,6aalpha,7beta, 7aalpha)-	an a	
P051	¹ 00072-20-8	2,7:3,6-Dimethanonaphth [2,3-b]oxirene 3,4,5,6,9,9-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		1997 - 19
P031	00460-19-5	Ethanedinitrile		
P066	16752-77-5	Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester		
P101	00107-12-0	Ethyl cyanide		
P054	00151-56-4	Ethyleneimine		
P097	00052-85-7	Famphur	and a standard stand Standard standard stan	
P056	07782-41-4	Fluorine		
P057	00640-19-7	Fluoroacetamide	at Salton	
P058	00062-74-8	Fluoroacetic acid, sodium salt	CHANGE AND A	
P065	00628-86-4	Fulminic acid, mercury(2+) salt (R,T)		
P059	00076-44-8	Heptachlor		

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Hazardou Waste Number	15 Chemical Abstracts No.	Substance		
P062	00757-58-4	Harathy tataghanhata	·	
P116	00757-50-4	Hudroginacarbathicomido		
P068	00010-10-0	Hydraeine methyl		
P063	00074-90-8	Hydrographic and		
P063	00074-90-8	Hydrocyanic acid		
2000	07802-51-9	Hydrogen cyande		
1030 1060	00465 72 6	Tood-in		
2000	00400-70-0	1 Sourini 2 (211) Jacoman 5 (and in an atlant)	and the second	3. 2
F007	00062 28 /	S (211)-ISOXAZOIONE, 5-(aminometnyi)-		
P052	00002-30-4	Mercury, (acetato-Opnenyi-		
P000	00028-80-4	Mercury ruminate (K,T)		
PUSZ	00062-75-9	Methanamine, N-methyl-N-mtroso-		
P064	00624-83-9	Methane, isocyanato-		
P016	00542-88-1	Methane, oxybis[chloro-		
P112	00509-14-8	Methane, tetranitro- (R)		
P118	00075-70-7	Methanethiol, trichloro-		
P050	00115-29-7	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10 hexachloro-1,5,5a,6,9,9a-hexah	ydro-, 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-Methyllactonitrile		
P071	00298-00-0	Methyl parathion	a de la contrata e a	
P072	00086-88-4	alpha-Naphthylthiourea		
P073	13463-39-3	Nickel carbonyl		
P073	13463-39-3	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		1.11
P076	10102-43-9	Nitric oxide		110
P077	00100-01-6	p-Nitroaniline		
P078	10102-44-0	Nitrogen dioxide	8 - 17 - 18 - 18 - 18 - 18 - 18 - 18 - 1	
P076	10102-43-9	Nitrogen oxide NO		
P078	10102-44-0	Nitrogen oxide NO2	1 X 1	
P081	00055-63-0	Nitroglycerine (R)		1.2
P082	00062-75-9	N-Nitrosodimethylamine		
P084	04549-40-0	N-Nitrosomethylvinylamine		
P085	00152-16-9	Octamethylpyrophosphoramide		
P087	20816-12-0	Osmium oxide $OsO4$ (T-4)-		
P087	20816-12-0	Osmium tetrovide		
P088	00145-73-3	7-Orabicyclo[2,2,1]hentane-2,3-dicarboxylic acid		
P089	00056-38-2	Parathian	1 8 1 ^{1 1} 1	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
P034	00131-89-5	Phanal 2-metabaryl & E-dinitra	a Carlos a construction	
P048	00051-28-5	Phonol 2 4-dinitro-		
P047	1 00534-52-1	Dhanal 2 mathred 4 6 dinitra & calta		
D090	00004-02-1	Phonol. 2 (1 mathylononyl) (6 dinita	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
D000	00121 74 9	Phonol, 2-(1-methylpropy)-4,0-0mmtro-	and the second second	
P005	00101-14-0	Phenol, 2,4,0° trinitro-, ammonium sait (R)		
P032	00002-38-4	Phenyinercury acetate		1.35
P093	00103-85-5	Phenyithiourea	47	11000
P094	00298-02-2	Phorate		
P095	00075-44-5	Phosgene		
P096	07803-51-2	Phosphine		
P041	00311-45-5	Phosphoric acid, diethyl 4-nitrophenyl ester		11124
P039	00298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	and the second sec	
P094	00298-02-2	Phosphorodithioic acid, O,O-diethyl S-{(ethylthio)methyl] ester		2.5
P044	00060-51-5	Phosphorodithioic acid, 0,0-dimethyl S-[2-(methylamino)-2-oxoethyl] ester		
P043	00055-91-4	Phosphorofluoridic acid, bis(1-methylethyl) ester	an a	a da anta a seconda da a seconda A seconda da a second
P089	00056-38-2	Phosphorothioic acid, 0,0-diethyl 0-(4-nitrophenyl) ester		-1
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-dimethyl ester		
P071	00298-00-0	Phosphorothioic acid, 0,0-dimethyl 0-(4-nitrophenyl) ester		
P110	00078-00-2	Plumbane, tetraethyl-	an tha start and an	
P098	00151-50-8	Potassium cyanide		
P098	00151-50-8	Potassium cyanide K(CN)		

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P099	00506-61-6	Potassium silver cyanide	
P070	00116-06-3	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime	
P101	00107-12-0	Propanenitrile	
P027	00542-76-7	Propanenitrile, 3-chloro-	
P069	00075-86-5	Propanenitrile, 2-hydroxy-2-methyl-	
P081	00055-63-0	1,2,3-Propanetriol, trinitrate (R)	
P017	00598-31-2	2-Propanone, 1-bromo-	
P102	00107-19-7	Propargyl alcohol	
P003	00107-02-8	2-Propenal	
P005	00107-18-6	2-Propen-1-ol	
P067	00075-55-8	1,2-Propylenimine	
P102	00107-19-7	2-Propyn-1-ol	
P008	00504-24-5	4-Pyridinamine	in and the second s
P075	¹ 00054-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & 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 cvanide Ag(CN)	
P105	26628-22-8	Sodium azide	
P106	00143-33-9	Sodium cvanide	
P106	00143-33-9	Sodium cyanide Na(CN)	
P108	¹ 00057-24-9	Struchnidin-10-one & salts	
P018	00357-57-3	Strychnidin-10-one 2.3-dimethoxy-	
P108	1 00057-24-9	Struchning & calts	
P115	07446-18-6	Sulfuric acid ditballium(1+) calt	
P109	03689-24-5	Tetraethyldithianyranhachate	
P110	00078-00-2	Tetraethyl load	
P111	00107-49-3	Tetraethy) nuronhaenhata	
P112	00509-14-8	Tetronitromethone (B)	
P062	00757-58-4	Tetraphognharia arid bergethyl actor	
P113	01314-32-5	Thallie avide	
P113	01014-02-5	Thallium arida TI202	
P114	12020-52-0	Thellium(I) colonite	
D115	07446 19 6	(The litere (T) and the	
P100	03680-94-5	Thisdinhoonhoris and totracthal actor	
P045	20106 19 /	Thiodophosphoric acia, tetraethyl ester	
D040	00541 52 7	Thiointia Jinekania Jineija ((TIONI)((C))ONTIT	
P014	00341-33-7	Thionhood	
D116	00070-10-6	Thiopmenoi	
D026	05244 09 1	Thiosenicarbazide	
10079	00096 00 4	Infourea, (2-cniorophenyi)-	
F012 D002	00000-00-4	Thiourea, I-naphthalenyi-	
F050	00103-85-5	incurea, phenyl-	
F120	00001-30-2	loxaphene	
P110	00075-70-7	1 richioromethanethioi	
D100	01014 60 1	vanadic acid, ammonium sait	
P120	01314-62-1	vanadium oxide V205	
P120	01314-62-1	vanadium pentoxide	
r084	04549-40-0	vmyiamine, N-methyi-N-nitroso-	
P001	4 00081-81-2	warrann, & salts, when present at concentrations greater than 0.3%	
P121	00557-21-1	Zunc cyanide	
P121	00557-21-1	Zinc cyanide Zn(CN)2	
1 CAS Ni	01314-84-7 umber given for parent (Zinc phosphide Zn3F2, when present at concentrations greater than 10% (R,T 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:

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Table V Toxic Commercial Chemical Products and Manufacturing Chemical Intermediates

Hazardou	S				
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	Acetamide, N-9H-fluoren-2-vl-	. · · · ·		
U240	¹ 00094-75-7	Acetic acid. (2.4-dichlorophenoxy) salts & esters		and the second sec	
11112	00141-78-6	Acetic acid, (2,1 didinor opicitor), saits a cours			412
11144	00307-04-2	Acetic acid lead(2+) calt			• .
17214	00563-68-8	Acetic acid, thallium(1+) salt			
See F027	00093-76-5	Acetic acid (2.4.5.trichloronhanovy)		and the second	
11002	00067-64-1	$\Delta_{\text{retors}}(T)$			
11003	00075-05-8	Acetonitrile (IT)			
T1004	00098-86-2	Acetonhamana			
T1005	00052-06-2	2 Asstularingfusions			
11006	00005-36-5	Acatul ablanida (C B T)	· · · · · ·		
11007	00070-00-0	Acetyl chloride (C,R,1)		and the second	
11000	00075-00-1	Acrylanide			
11000	00079-10-7				
0009	00107-13-1	Actylonitrie			
10011	00061-82-5	Amitrole			
0012	00062-53-3	Amiine (1,1)			
0136	00075-60-5	Arsinic acid, dimethyl-			
0014	00492-80-8	Auramine			
0015	00115-02-6	Azaserine		an a	
0010	00050-07-7	Azırıno[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione 6-amino-8-[[(aminocar methoxy-5 -methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]-	bonyi)oxy]methyl]-1,1a	,2,8,8a,8b-hexahyo	iro-8a-
U157	00056-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-			
U016	00225-51-4	Benz[c]acridine			
U017	00098-87-3	Benzal chloride	5		
U192	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-			
U018	00056-55-3	Benz[a]anthracene	1.1.2 1.1.2		
U094	00057-97-6	Benz[a]anthracene, 7,12-dimethyl-			1.1.1
U012	00062-53-3	Benzenamine (I,T)			
U014	00492-80-8	Benzenamine, 4.4'-carbonimidovlbis[N.N-dimethyl-			
U049	03165-93-3	Benzenamine, 4-chloro-2-methyl-, hydrochloride		Na shekara ta	1876 - 1
U093	00060-11-7	Benzenamine, N.N-dimethyl-4-(phenylazo)-			
U328	00095-53-4	Benzenamine, 2-methyl-		14	1.1.1
U353	00106-49-0	Benzenamine, 4-methyl-			
U158	00101-14-4	Benzenamine, 4.4'-methylenebis[2-chloro-	the second	4	
U222	00636-21-5	Benzenamine, 2-methyl-, hydrochloride			
U181	00099-55-8	Benzenamine, 2-methyl-5-nitro-			
U019	00071-43-2	Benzene (I.T)	A BAR A		
U038	00510-15-6	Benzeneacetic acid. 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-	ethy ester	a da da ser	
U030	00101-55-3	Benzene. 1-bromo-4-obenoxy-			
U035	00305-03-3	Benzenebutanoic acid 4-[bis(2-chloroethyl)amino]-			1.4
U037	00108-90-7	Benzene, chloro-			
11221	25376-45-8	Benzenediamine ar-methyl-			
U028	00117-81-7	1.2-Benzenedicarhoxylic acid his(2-ethylbexyl) ester			- gi d
11069	00084-74-2	1 2-Benzenedicarboxylic acid, dibutyl ester			21 + 1
11088	00084-66-2	12-Benzenedicarborylic acid, diethyl ester			
U102	00131-11-3	1.2-Benzenedicarboxylic acid, directlyl ester			
U107	00117-84-0	1.2. Benzenedicarboxylic acid, diaetul ester			
1070	00095-50-1	Benzene 1 2-dichloro-			
U071	00541-73-1	Benzene 1.3-dichloro-			
1072	00106-46-7	Benzene 1 4-dichlorn-			2
11060	00072-54-8	Benzene 1 12(2.2-dichloroethylidene)hie[1-ahloro	a ser a s		1.1
U017	00098-87-3	Bonzono (dichloromathyl)			
11223	26471-62-5	Benzene 1.3-diisorvanatomethyl- (RT)		n de la composition d La composition de la c	
11239	01330-20-7	Benzene dimethyl. (IT)	·~		
11201	00108-46-9	1 3-Bonzonadial			
1197	00118-74-1	Banzana havachlara			
0127	00110-7-1	Bonzono bovohudzo (I)			
	00110-02-1	Dendene, liekaliyuro- (1)			

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Hazardo Waste	ous Chemical				
Number	Abstracts No.	Substance	· · · · · · · · · · · · · · · · · · ·		$(a, b, b) \in \mathbb{R}^{n}$
U220	00108-88-3	Benzene, methyl-	· ·		
U105	00121-14-2	Benzene, 1-methyl-2,4-dinitro-			
U106	00606-20-2	Benzene, 2-methyl-1,3-dinitro-			
U055	00098-82-8	Benzene, (1-methylethyl)- (I)	and the second		
U169	00098-95-3	Benzene, nitro-			
U183	00608-93-5	Benzene, pentachloro-			
U185	00082-68-8	Benzene, pentachloronitro-			
0020	00098-09-9	Benzenesulfonic acid chloride (C,R)		1. N 1.	
0020	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)bi	s[4-chloro-	$\mathcal{F} = \mathcal{F} = \mathcal{F}$	
U247	00072-43-5	Benzene, 1,1'-(2,2,2-trichloroethylidene)bi	s[4- methoxy-		
0023	00098-07-7	Benzene, (trichloromethyl)-	terre and and a second second		
U234	00099-35-4	Benzene, 1,3,5-trinitro-			
11000	00092-87-5	Benzidine			
0202	- 00081-07-2	1,2-Benzisothiazol-3 (2H)-one, 1,1-dioxide,	, & salts		
0203	00094-59-7	1,3-Benzodioxole, 5-(2-propenyl)-			1200
U141	00120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-			
0090	00094-58-6	1,3-Benzodioxole, 5-propyl-		the second second	
0064	00189-55-9	Benzo[rst]pentaphene	1	1 A. S. 1990	
0248	1 00081-81-2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-ox	to-1-phenyl-butyl)-, & salts, whe presen	t at concentrations of 0.3	% or less
0022	00050-32-8	Benzo[a]pyrene	and the provide the second	and the second sec	
0197	00106-51-4	p-Benzoquinone			
0023	00098-07-7	Benzotrichloride (C,R,T)	and we can also a start of the		10
0085	01464-53-5	2,2'-Bioxirane			
0021	00092-87-5	[1,1'-Biphenyl]-4,4'-diamine	and the second	$\sum_{i=1}^{n} (i \in \mathcal{M}_{i}) = \sum_{i=1}^{n} (i$	
0073	00091-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-			
0091	00119-90-4	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethox	y -		
0095	00119-93-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	•		
0225	00075-25-2	Bromotorm			
0030	00101-55-3	4-Bromophenyl phenyl ether			
U128	00087-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-			
11001	00924-16-3	1-Butanamine, N-butyi-N-nitroso-			
11150	00071-36-3	1-Butanol (I)			
0109	00078-93-3	2-Butanone (I,T)			
0100	01338-23-4	2-Butanone, peroxide (R,T)			
11074	04170-30-3	2-Butenai			
111/2	00704-41-0	2-Butene, 1,4-dichloro- (1,1)			
0140	00303-34-4	2-Dutenoic acid, 2-methyl-, 7-[[2,3-dihydrox 1H-pyrrolizin-1-y] ester [1S-[1a]pha(Z) 7(2	xy 2-(1-methoxyethyi)-3-methyl-1-oxobu (S* 3R*) 7aalphall-	itoxy/methyl]-2,3,5,7a-tetr	abydro-
U031	00071-36-3	n-Butyl alcohol (I)	o ,ou ,, aupuajj		
U136	00075-60-5	Cacodylic acid			
U032	13765-19-0	Calcium chromate			
U238	00051-79-6	Carbamic acid, ethyl ester			
U178	00615-53-2	Carbamic acid, methylnitroso, ethyl ester			
U097	00079-44-7	Carbamic chloride, dimethyl-		in the second	
U114	¹ 00111-54-6	Carbamodithioic acid, 1,2-ethanediylbis-, sa	alts & 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	and the second secon		
U156	00079-22-1	Carbonochloridic acid, methyl ester (I,T)			
U033	00353-50-4	Carbon oxyfluoride (R,T)	 A second sec second second sec		
U211	00056-23-5	Carbon tetrachloride		an an taon an t	
U034	00075-87-6	Chloral			
U035	00305-03-3	Chlorambucil			
U036	00057-74-9	Chlordane, alpha & gamma isomers			
U026	00494-03-1	Chlomaphazin		an a	
U037	00108-90-7	Chlorobenzene			
U038	00510-15-6	Chlorobenzilate			
U039	00059-50-7	p-Chloro-m-cresol			
U042	00110-75-8	2-Chloroethyl vinyl ether			
U044	00067-66-3	Chloroform			
U046	00107-30-2	Chloromethyl methyl ether			

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Waste Number	Chemical Abstracts No.	Substance			
	00001 50 5	hate Ohlennenshahelene			
U047	00091-58-7	beta-Unioronaphthalene			
0048	00095-57-8	o-Chiorophenoi			
0049	03100-93-3	4-Chioro-o-tolulaine, hydrochioride			
0032	13765-19-0	Chromic acid H2CrO4, calcium sait			
0050	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	00506-68-3	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-(1alpha	a,2alpha,3beta,4alpha,5alpha,6beta)-	e ta ca	
U057	00108-94-1	Cyclohexanone (I)			1 A A
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, salts & esters		et a second	
U059	20830-81-3	Daunomycin			
U060	00072-54-8	DDD	the set of the set		
U061	00050-29-3	DDT			
U062	02303-16-4	Diallate			
U063	00053-70-3	Dibenz[a,b]anthracene			
U064	00189-55-9	Dibenzo[a,i]pyrene			
U066	00096-12-8	1,2-Dibromo-3-chloropropane		and all a second	
U069	00084-74-2	Dibutyl phthalate			-97 (s
U070	00095-50-1	o-Dichlorobenzene		$1 \leq 1 \leq \frac{1}{2} \sum_{i=1}^{n} (1 \leq i \leq n)$	
U071	00541-73-1	m-Dichlorobenzene	States and the second second second	the standard standards	
U072	00106-46-7	p-Dichlorobenzene			
U073	00091-94-1	- 3,3'-Dichlorobenzidine	$(1,1,2,\dots,2,n) \in \mathbb{R}^{n} \times \mathbb{R}$		
U074	00764-41-0	1,4-Dichloro-2-butene (I,T)	and the second	a de la companya de l	
U075	00075-71-8	Dichlorodifluoromethane			
U078	00075-35-4	1.1-Dichloroethylene	and the second secon		26.1
U079	00156-60-5	1.2-Dichloroethylene	and the second		
U025	00111-44-4	Dichloroethyl ether		the state of the second	181
U027	00108-60-1	Dichloroisopropyl ether		the second states	
U024	00111-91-1	Dichloromethoxy ethane	a state and a state of the state of the		
U081	00120-83-2	2.4-Dichlorophenol		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
U082	00087-65-0	2.6-Dichlorophenol			
U084	00542-75-6	1.3-Dichloropropene	and the Conference of the second second second	Sector Sector	
U085	01464-53-5	1.2:3.4-Diepoxybutane (I.T)	en et de la construction de la cons		
17108	00123-91-1	1.4-Diethyleneoxide			
11028	00117-81-7	Diethylhexyl phthalate		NAMES OF	
U086	01615-80-1	N.N'-Diethylhydrazine		1283 J. (11)	
U087	03288-58-2	O.O-Diethyl S-methyl dithiophosphate	A second s		
1088	00084-66-2	Diethyl phthalate		al the state of	
11089	00056-53-1	Diethylstilbesterol	and the second part of the second	and the second	
11090	00094-58-6	Dibydrosafrole	a na ana ao amin'ny faritr'i Ana ao amin'ny faritr'i Ana ao amin'ny faritr'i Ana ao amin'ny faritr'i Ana ao ami		
11091	00119-90-4	3 3'-Dimethoxybenzidine	the second second second second		
11092	00124-40-3	Dimethylamine (I)	and a set of the second second		
11093	00060-11-7	p-Dimethylaminoazobenzene			
11004	00057-07-6	7 12-Dimethylheng[a]anthracene	$\label{eq:approximation} a = \frac{1}{2} \left[$. di f
11005	00110 02 7	3 2'-Dimethylbenzidine		a she i ka she a sa	
11006	00113-33-7	alpha alpha Dimathulhanzulhudronerovide (B) Suga Subar		
11007	00000-10-5	Dimethyleschement chloride			
11000	00013-11-1	1 1. Dimethylan balloyi chioride			
0098	00007-14-7	1,1-Dimethylhydrazine	sectors of a second sector of the	Product March	
0099	00540-73-8	1,2-Linethylnydrazine			~ 0.1
U101	00105-67-9	2,4-Dimethylphenol		$\int_{-\infty}^{\infty} dx = \int_{-\infty}^{\infty} \frac{dx}{dx} = \int_{-$	
U102	00131-11-3	Dimethyl phthalate	n an		
U103	00077-78-1	Limethyl sulfate			
U105	00121-14-2	2,4-Dinitrotoluene			
U106	00606-20-2	2,6-Dinitrotoluene			
U107	00117-84-0	Di-n-octyl phthalate		1. S.	
U108	00123-91-1	1,4-Dioxane		•	

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Waste	Chemical Abstracts No	Substance			
	mosulacts into.	Substance	······································		
U109	00122-66-7	1,2-Diphenylhydrazine			
U110	00142-84-7	Dipropylamine (I)		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
U111	00621-64-7	Di-n-propylnitrosamine			
U041	00106-89-8	Epichlorohydrin	The second states		
U001	00075-07-0	Ethanal (I)		$= \left(k_{1}^{2} + k_{2}^{2} + k_{3}^{2} +$	N
U174	00055-18-5	Ethanamine, N-ethyl-N-nitroso-			
U155	00091-80-5	1,2-Ethanediamine, N,N-dimethyl-	N°-2-pyridinyl-N'-(2-thienylmethyl)-		1.12
U067	00106-93-4	Ethane, 1,2-dibromo-	a and the first state of the second states of the		
U076	00075-34-3	Ethane, 1,1-dichloro-			10 A.
U077	00107-06-2	Ethane, 1,2-dichloro-			
U131	00067-72-1	Ethane, hexachloro-		이 이 문제 문제 같이 있는 것이 같이 있다.	197
U024	00111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis	[2-chloro-		1 a -
U117	00060-29-7	Ethane, 1,1'-oxybis-(I)			
U025	00111-44-4	Ethane, 1,1'-oxybis[2-chloro-		to the second	14 - 1 1
U184	00076-01-7	Ethane, pentachloro-		the second s	1.5.12
U208	00630-20-6	Ethane, 1,1,1,2-tetrachloro-		and the second se	
U209	00079-34-5	Ethane, 1,1,2,2-tetrachloro-	and the state of the second state of the	an the	
U218	00062-55-5	Ethanethioamide	$(x,y) = \sum_{i=1}^{N} \frac{1}{i} \sum_{i=1}^{N} \frac{1}$		
U226	00071-55-6	Ethane, 1,1,1-trichloro-	$(a_1,b_2) \in \mathbb{R}^{n}$	and the second sec	
U227	00079-00-5	Ethane, 1,1,2-trichloro-		$h \in \{1, 2, 3, 5\}$	
U359	00110-80-5	Ethanol, 2-ethoxy-			
U173	01116-54-7	Ethanol, 2,2'-(nitrosoimino)bis-	$\left[\frac{1}{2}\right]_{1}^{2} = \left[\frac{1}{2}\right]_{1}^{2} $		
0004	00098-86-2	Ethanone, 1-phenyl-			
0043	00075-01-4	Ethene, chloro-			
0042	00110-75-8	Ethene, (2-chloroethoxy)-	a second a second s		111
0078	00075-35-4	Ethene, 1,1-dichloro-		and the second second	
0079	00156-60-5	Ethene, 1,2-dichloro-, (E)-			$r = -\frac{2\pi}{2} \frac{R}{r_{\rm eff}} + \frac{R}{r_{\rm eff}}$
U210	00127-18-4	Ethene, tetrachloro-			See 1.
UZZ8	00079-01-6	Ethene, trichloro-			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
UIIZ	00141-78-6	Ethyl acetate (1)		A Constant State	
0113	00140-88-5	Ethyl acrylate (I)	Although the second		
0238	00051-79-6	Ethyl carbamate (urethane)	an tanan an t		a da ante da a Nota da ante da
0117	00060-29-7	Ethyl ether (1)		 A description of the second sec	· ·
U114	- 00111-54-6	Ethylenebisdithiocarbamic acid, sal	ts & esters		1411
0067	00106-93-4	Ethylene dibromide		e and a state of the second	24 C
10077	00107-06-2	Ethylene dichloride			
U309	00110-80-5	Ethylene glycol monoethyl ether	1.4. 4 ¹⁰ (1.2 1.1.	an A.M. S. Sterr	
11116	00075-21-8	Ethylene oxide (1,1')		1997 - 1997 -	an a
11076	00050-40-7	Ethylenetmourea			
TT119	00075-54-5	Ethylaene alchorae		n station i produce	
11110	00057-00-2	Ethyl methonogylane		n se de la companya de la companya En la companya de la c	
TI120	00206-44-0	Flyoranthona	(2) Statistical Learning and Like data search of Difference in the second se Second second se Second second sec		na hana anna anna anna anna anna anna a
U122	00200-11-0	Formaldebude	Ali ta Santa S	1995년 위험이 있는 것 1997년 - 1997년 - 1997년 1997년 - 1997년 -	
U123	00064-18-6	Formic acid (CT)	and the second		
U124	00110-00-9	Furan (I)			
U125	00098-01-1	2-Furancarboxaldehyde (I)			11
U147	00108-31-6	2.5-Furandione			
U213	00109-99-9	Furan tetrahydro-(I)		t dia set a set a set	
U125	00098-01-1	Furfural (I)			
U124	00110-00-9	Furfuran (I)		and the second second	ni Malakaran ara
U206	18883-66-4	Glucopyranose, 2-deoxy-2-(3-methyl-	3-nitrosoureido)- D-		and a second
U206	18883-66-4	D-Glucose, 2-deoxy-2-fl(methylnitros	oamino)- carbonyllamino]-		
U126	00765-34-4	Glycidylaldehyde		and the second	
U163	00070-25-7	Guanidine, N-methyl-N'-nitro-N-nitr	0S0-		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
U127	00118-74-1	Hexachlorobenzene			
U128	00087-68-3	Hexachlorobutadiene		an a	
U130	00077-47-4	Hexachlorocyclopentadiene			
U131	00067-72-1	Hexachloroethane		e tradicionale de la companya de la Nota de la companya de	
U132	00070-30-4	Hexachlorophene			
U243	01888-71-7	Hexachloropropene			
U133	00302-01-2	Hydrazine (R,T)			-
U086	01615-80-1	Hydrazine, 1,2-diethyl-		$\gamma = \gamma^{2} \gamma^{2}$	

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Hazardou Waste Number	S Chemical Abstracts No	Substance		to base a co Alternative Alternative	
U098	00057-14-7	Hydrazine, 1,1-dimethyl-			0 No
U099	00540-73-8	Hydrazine, 1,2-dimethyl-	the second s		
U109	00122-66-7	Hydrazine, 1,2-diphenyl-		1997 - 1997 -	
U134	07664-39-3	Hydrofluoric acid (C,T)			
U134	07664-39-3	Hydrogen fluoride (C,T)			
U135	07783-06-4	Hydrogen sulfide	and the second		*
U135	07783-06-4	Hydrogen sulfide H2S	g Maria Raka di Kabupatén Kabupatén Kabupatén Kabupatén Kabupatén Kabupatén Kabupatén Kabupatén Kabupatén Kabup		· · · ·
U096	00080-15-9	Hydroperoxide, 1-methyl-1-phenylethyl- (R)		e en su compositore en se	
U116	00096-45-7	2-Imidazolidinethione		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
U137	00193-39-5	Indeno[1,2,3-cd]pyrene			
U190	00085-44-9	1,3-Isobenzofurandione			44. (A. 1997) 1997 - A. 1997 1997 - A. 1997
U140	00078-83-1	Isobutyl alcohol (I,T)		1.1337.0	
U141	00120-58-1	Isosafrole			
U142	00143-50-0	Kepone			
U143	00303-34-4	Lasiocarpine			
U144	00301-04-2	Lead acetate		to provide a film	
U146	01335-32-6	Lead, bis(acetato-O)tetrahydroxytri-			
U145	07446-27-7	Lead phosphate	e de la companya de l		
U146	01335-32-6	Lead subacetate			
U129	00058-89-9	Lindane			
U163	00070-25-7	MNNG		A 44 D 12	
U147	00108-31-6	Maleic anhydride			
U148	00123-33-1	Maleic hydrazide	 As support of the second se Second second secon second second sec		
U149	00109-77-3	Malononitrile			
U150	00148-82-3	Melphalan			el constante de la constante d La constante de la constante de
U151	07439-97-6	Mercury			
U152	00126-98-7	Methacrylonitrile (I, T)		an a	10 A.A. 1 A
U092	00124-40-3	Methanamine, N-methyl- (I)			
U029	00074-83-9	Methane, bromo-			
U045	00074-87-3	Methane, chloro- (1, T)			
U046	00107-30-2	Methane, chloromethoxy-			42 50 - 1
0068	00074-95-3	Methane, dibromo-			
0080	00075-09-2	Methane, dichloro-	and a second		
0070	00075-71-8	Methane, dichlorodilluoro-			
U138	00074-88-4	Methane, 1000-	and the second	2012 C. 1997	
0119	00062-00-0	Methanesulionic acid, ethyl ester			
11159	00000-20-0	Methorsthiel (I (T)	 A second sec second second sec		
U 199 T1995	00074-93-1	Methanethiol (1, 1)			
1104A	00013-23-2	Methana triphlara		a sente a terrer	
TT191	00007-00-3	Methane, trichlorofinare-			
11036	00010-03-4	47-Methano-1H-indene 12456788-ortach	loro-23324772-hevahudro-		
11154	00067-56-1	Methanol (I)	1010-2,0,00, 1 ,1,1 a 110-2011-		
TI155	00091-80-5	Methanyrilene	and the second	and the second second	5. g t t
U142	00143-50-0	1.3.4-Metheno-2H-cyclobuta[cd]pentalen-2-on	e 1.1a.3.3a.4.5.5.5a.5b.6-decachlorooctab	vdro-	
11247	00072-43-5	Methoxychlor		san inga	
U154	00067-56-1	Methyl alcohol (I)	the state of the second st	$\frac{1}{2} F_{\rm e} F_{\rm e} = 1$	
U029	00074-83-9	Methyl bromide			
U186	00504-60-9	1-Methylbutadiene (I)			
U045	00074-87-3	Methyl chloride (I.T)	and the second	the second	
U156	00079-22-1	Methyl chlorocarbonate (I.T)		1 D _ 22	•
U226	00071-55-6	Methyl chloroform	en a ser en		
U157	00056-49-5	3-Methylcholanthrene	and the standard standards	the first states of	
U158	00101-14-4	4,4'-Methylenebis(2-chloroaniline)	and the second of the		lat sel
U068	00074-95-3	Methylene bromide	and sentence in the second second	the states of	$\mathcal{A} = \mathcal{A}$
U080	00075-09-2	Methylene chloride			
U159	00078-93-3	Methyl ethyl ketone (MEK) (I.T)	and the second second second second	$C = C_{1} + C_{2}$	
U160	01338-23-4	Methyl ethyl ketone peroxide (R,T)	and the second		111
U138	00074-88-4	Methyl iodide	sector and the sector of the	and the second sec	
U161	00108-10-1	Methyl isobutyl ketone (I)	the state of the second second		⁶
U162	00080-62-6	Methyl methacrylate (I,T)	s e l'in turn ar stà théadh	Sec. S. Way	
U161	00108-10-1	4-Methyl-2-pentanone (I)	the second se		
U164	00056-04-2	Methylthiouracil	 A state of a state of a state 		1179 A.

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U166 U167 U168 U217 **U169** U170

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U176 U177

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Chemical Abstracts No.	Substance			
00050-07-7	Mitomycin C		· · · · · · · · · · · · · · · · · · ·	
20830-81-3	5,12-Naphthacenedione 8-acetyl-10-[(3-amino-2, 6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	3,6-trideoxy)-alpha-L-lyxo-hexopyran	osyl) oxy]-7,8,9,10-tetrahydr	:0-
00134-32-7	1-Naphthalenamine			
00091-59-8	2-Naphthalenamine			
00494-03-1	Naphthalenamine, N,N'-bis(2-chloroethyl)-			
00091-20-3	Naphthalene			
00091-58-7	Naphthalene, 2-chloro-			
00130-15-4	1,4-Naphthalenedione			
00072-57-1	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3' dimet	hyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)bis	5-amino-4-hydroxy]-, te-	
00120 15 4	trasodium sait			
00130-13-4	1,4-Naphthoquinone			
00104-02-7	hote Nonhthulamine			
10102-45-1	Nitrie and the line (1) as t		the state of the second	
00098-95-3	Nitrohongono (IT)			
00000-00-0	n-Nitrophonol			
00100-02-1	2-Nitropropage (IT)			
00924-16-3	N-Nitroendi-n-hutulamine			
01116-54-7	N-Nitrosodiethanolamino			
00055-18-5	N-Nitrosodiathylamine	$(x_i, f_i) = (x_i, f_i, f_i) = (x_i, f_i) + (x_i, f_i) = (x_i, f_i) + (x_i, f_i) + (x_i, f_i) = (x_i, f_i) + (x_i, f_i) $		
00759-73-9	N-Nitrosa N-othyluroa	and the second second		
00684-93-5	N-Nitroso N-mathylurea		· · · · · · · · · · · · · · · · · · ·	
00615-53-2	N-Nitrosa N-methylurethana			
00100-75-4	N-Nitrosonineridine			
00930-55-2	N-Nitrosopyrrolidine			
00099-55-8	5-Nitro-o-toluidine			
01120-71-4	1.2-Oxathiolane, 2.2-dioxide			1
00050-18-0	2H-1.3.2-Oxazaphosphorin-2-amine, N.N-bis(2-cl	loroethyl)tetrahydro- 2-oxide		
00075-21-8	Oxirane (I.T)			
00765-34-4	Oxiranecarboxyaldehyde	-	t Alter de	
00106-89-8	Oxirane, (chloromethyl)-			
00123-63-7	Paraldehyde			
00608-93-5	Pentachlorobenzene			
00076-01-7	Pentachloroethane			
00082-68-8	Pentachloronitrobenzene (PCNB)		191 191	
00087-86-5	Pentachlorophenol		n an the factor of the factor	
00108-10-1	Pentanol, 4-methyl-		a sa	
00504-60-9	1,3-Pentadiene (I)			
00062-44-2	Phenacetin			
00108-95-2	Phenol			
00095-57-8	Phenol, 2-chloro-			
00059-50-7	Phenol, 4-chloro-3-methyl-			
00120-83-2	Phenol, 2,4-dichloro			
00087-65-0	Phenol, 2,6-dichloro-			
00056-53-1	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-			
00105-67-9	Phenol, 2,4-dimethyl-	in the second second second	a trippet and	
01319-77-3	Phenol, methyl-		and the second	`
00070-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-			
00100-02-7	Phenol, 4-nitro-	en an an an an Arago		
00087-86-5	Phenol, pentachloro-			j.
00058-90-2	Phenol, 2,3,4,6-tetrachloro-			
00095-95-4	Phenol, 2,4,5-trichloro-	and the second		
00088-06-2	Phenol, 2,4,6-trichloro-	the star star and the	and the second	
00148-82-3	L-rhenylalanine, 4-[bis(2-chloroethyl)amino]-	and the second		
07446-27-7	Phosphoric acid, lead(2+) salt (2:3)		1 A. S. 13	
03288-58-2	rnosphorodithioic acid, O,O-diethyl S-methyl este	er en la seconda de la se Seconda de la seconda de la s		
01314-80-3	Photophorus sulfide (R)	the second second		is X
00085-44-9	Phthalic anhydride			
00109-06-8	Z-FICOLINE	a state of the second se		
00100-70-4	riperidine, i-nitroso-	and States 2	Sec. 19 Star	
2090-08-0 00107 10 0	Pronamide	e da ante parte da ante en la		
00101-10-9	1-rropanamine (1,1)	200 - 10 f	a second second	

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WISCONSIN ADMINISTRATIVE CODE

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Hazardou	s		
Waste	Chemical		
Number	Abstracts No.	Substance	
1111	00621-64-7	1. Prononamino NI nitroco Ni nyanyi	
11110	00021-04-7	1 Propanamine, N-muloso-iv-propyi-	
UII0	00142-04-7	1-Propanamine, IN-propyl- (1)	
0066	00096-12-8	Propane, 1,2-dibromo-3-chloro-	
U083	00078-87-5	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-	
11193	01120-71-4	1 3. Pronane sultane	
See E027	00002 79 1	Demonstration of a fight second second	
See F027	00093-72-1	Propanoic acid, 2-(2,4,5-trichorophenoxy)-	
U235	00126-72-7	1-Propanol, 2,3-dibromo-, phosphate (3:1)	
U140	00078-83-1	1-Propanol, 2-methyl- (I,T)	
U002	00067-64-1	2-Propanone (I)	
U007	00079-06-1	2-Propenamide	
U084	00542-75-6	1-Propene. 1.3-dichloro-	
11243	01888.71.7	1-Propense 112333-herschlarg	
TTOOO	00107 19 1	9 Decree eniteile	
11150	00107-13-1	2-Fropenenitrite	
0152	00126-98-7	2-Propenentrile, 2-methyl- (1,1)	1.1.1.1.2
U008	00079-10-7	2-Propenoic acid (I)	
U113	00140-88-5	2-Propenoic acid, ethyl ester (I)	
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-Pronvlamine (IT)	
11083	00078.87.5	Propyrimine (2,2)	A CONTRACTOR OF A
TT1 49	00070-07-0	Propytelle dicilioride	
0148	00123-33-1	3,0-Fyridazinedione, 1,2-dinydro-	
U196	00110-86-1	Pyridine	an a
U191	00109-06-8	Pyridine, 2-methyl-	
U237	00066-75-1	2,4-(1H,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-	
11200	00050-55-5	Recernine	100 C 100 C
T1201	00108 46-2	Pagarainal	ing a station of the
11900	1 00001 07 0	Resolution	Address Bart
0202	- 00081-07-2	Saccharin, & saits	
U203	00094-59-7	Safrole	
U204	07783-00-8	Selenious acid	
U204	07783-00-8	Selenium dioxide	
U205	07488-56-4	Selenium sulfide	
U205	07488-56-4	Selenium sulfide SeS2 (R.T)	
U015	00115-02-6	L-Serine diazoacetate (ester)	
See F027	00003.72.1	Silvar (2 / 5 TD)	$g = 2\pi \pi r^2 + 1$
11000	10000-12-1	Chrysken (2,3,0°11)	and the state of the
0206	10003-00-4	Streptozotocin	Station and a
0103	00077-78-1	Sulfuric acid, dimethyl ester	
U189	01314-80-3	Sulfur phosphide (R)	
See F027	00093-76-5	2,4,5-T	
U207	00095-94-3	1,2,4,5-Tetrachlorobenzene	 Zono Alexandria The second secon
U20 8	00630-20-6	1,1,1,2-Tetrachloroethane	
U209	00079-34-5	1.1.2.2-Tetrachloroethane	
11210	00127-18-4	Tetrachlarathylana	
See E097	00121-10-4	0.0.4.C There allowed and	a Constantin
See F027	00000-90-2	2,3,4,0-1 etrachiorophenol	
0213	00109-99-9	Tetrahydrofuran (1)	
U214	00563-68-8	Thallium(I) acetate	1
U215	06533-73-9	Thallium(I) carbonate	and the second
U216	07791-12-0	Thallium(I) chloride	
U216	07791-12-0	Thallium chloride TlCl	
U217	10102-45-1	Thallium(I) nitrate	
11218	00062-55-5	Thiosostamida	$\mathcal{F}^{(1)} = \mathcal{F}^{(1)}$
11150	00074 00 3		Constant Constant
0153	00074-93-1	Thiomethanol (1,T)	Sec. A.
U244	00137-26-8	Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-	
U219	00062-56-6	Thiourea	the second s
U244	00137-26-8	Thiram	
U220	00108-88-3	Toluene	
U221	25376-45-8	Toluenediamine	and the second
11223	26471-62-5	Tohiene dijsorvanate (RT)	
11220	00005 52 4	- Tabuidina	già di Maria di
0040	00000-00-4		

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Hazardous Waste Number	Chemical Abstracts No.	Substance			an the second
U353	00106-49-0	p-Toluidine	· · · · · · · · · · · · · · · · · · ·		
U222	00636-21-5	o-Toluidine hydrochloride			, ,
U011	00061-82-5	1H-1,2,4-Triazol-3-amine			
U227	00079-00-5	1,1,2-Trichloroethane			
U228	00079-01-6	Trichloroethylene			
U121	00075-69-4	Trichloromonofluoromethane			
See F027	00095-95-4	2,4,5-Trichlorophenol			
See F027	00088-06-2	2,4,6-Trichlorophenol			
U234	00099-35-4	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-			a de la companya de l
<u>U177</u>	00684-93-5	Urea, N-methyl-N-nitroso-			and the second
U043	00075-01-4	Vinyl chloride			
U248	¹ 00081-81-2	Warfarin, & salts, when present at co	ncentrations of 0.3% or less		
U239	01330-20-7	Xylene (I)			
U200	00050-55-5	Yohimban-16-carboxylic acid 11,17-dir (3beta,16beta,17alpha,18beta,20alpha	nethoxy-18-[(3,4,5-trimethox)-	rybenzoyl)o	oxy]-, methyl ester,
U249	01314-84-7	Zinc phosphide Zn3P2, when present	at concentrations of 10% or	les	

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 K065, Primary Zinc Group K066, Primary Aluminum Group K088, Ferroalloys Group Entries K090, K091, Coking 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.

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

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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 (e), 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,

(i) 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.

Register, May, 1995, No. 473

(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, 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.

1. Sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement; and 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.

