

Chapter NR 675

LAND DISPOSAL RESTRICTIONS

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NR 675.01 Purpose. The purpose of this chapter is to identify hazardous wastes that are restricted from land disposal and define those limited circumstances under which an otherwise prohibited waste may continue to be disposed on land.

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

NR 675.02 Applicability. Except as specifically provided, the requirements of this chapter apply to generators and transporters of hazardous waste and owners and operators of hazardous waste treatment, storage or disposal facilities. This chapter does not apply to solid waste generators, transporters or solid waste treatment, storage or disposal facilities that generate, transport or receive only:

- (a) Non-hazardous solid waste,
- (b) Metallic mining wastes resulting from a mining operation as defined in s. 144.81 (5), Stats.,
- (c) Polychlorinated biphenyls (PCBs), except where portions of this chapter are referenced in ch. NR 157, or
- (d) A combination of wastes described in pars. (a) to (c).

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

NR 675.03 Definitions. The definitions in s. NR 600.03 apply to this chapter.

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

NR 675.04 Exemptions. (1) Wastes which are otherwise prohibited from land disposal under this chapter may be treated in a surface impoundment or series of impoundments provided that:

- (a) The following conditions are met:

1. Sampling and testing. For wastes with treatment standards in ss. NR 675.20 to 675.24 or prohibition levels in ss. NR 675.10 to 675.14 or both, the residues from treatment shall be analyzed as specified in s. NR 675.07 or 675.12 to determine if they meet the applicable treatment stan-

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dards or, where no treatment standards have been established for the waste, the applicable prohibition levels. The sampling method, specified in the waste analysis plan under s. NR 630.13, shall be designed such that representative samples of the sludge and the supernatant are tested separately rather than mixed to form homogeneous samples.

2. Removal. The following treatment residues, including any liquid waste, shall be removed at least annually: residues which do not meet the treatment standards promulgated under ss. NR 675.20 to 675.24; residues which do not meet the prohibition levels established under ss. NR 675.10 to 675.14 or imposed by statute where no treatment standards have been established; residues which are from the treatment of wastes prohibited from disposal on land under ss. NR 675.10 to 675.14 where no treatment standards have been established and no prohibition levels apply; or residues from managing listed wastes which are not delisted under s. NR 605.10. If the volume of liquid flowing through the impoundment or series of impoundments annually is greater than the volume of the impoundment or impoundments, this flowthrough constitutes removal of the supernatant for the purpose of this requirement.

3. Subsequent management. Treatment residues may not be placed in any other surface impoundment for subsequent management.

4. Recordkeeping. The procedures and schedule for the sampling of impoundment contents, the analysis of test data and the annual removal of residues which do not meet the treatment standards, or prohibition levels where no treatment standards have been established, or which are from the treatment of wastes prohibited from disposal on land under ss. NR 675.10 to 675.14 where no treatment standards have been established and no prohibition levels apply, shall be specified in the facility's waste analysis plan as required under s. NR 630.13.

(b) The impoundment meets the design requirements of ch. NR 660, regardless that the unit may not be new, expanded, or a replacement, and shall be in compliance with applicable groundwater monitoring requirements of ch. NR 635, and

(c) The owner or operator submits to the department a written certification that the requirements of par. (b) have been met and submits a copy of the waste analysis plan required under par. (a). The following certification is required:

I certify under penalty of law that the requirements of s. NR 675.04 (1) (c), have been met for all surface impoundments being used to treat restricted wastes. I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

(2) Evaporation of hazardous constituents as the principal means of treatment is not considered to be treatment for the purposes of an exemption under this section.

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

NR 675.05 General. (1) (a) Any person who generates, treats, stores or disposes of a hazardous waste may seek an extension to the effective date of any applicable requirement under s. NR 675.10 to 675.15 by submitting a written request to the department. The request shall be filed with the Register, February, 1991, No. 422

ting an application to EPA pursuant to 40 CFR 268.5 as of the federal register dated September 6, 1989.

(b) If EPA denies an application for an extension under 40 CFR 268.5 as of the federal register dated September 6, 1989, the department shall recognize that denial.

(c) Persons who have had their applications for an extension approved by EPA under 40 CFR 268.5 as of the federal register dated September 6, 1989, shall continue to manage their wastes in compliance with any applicable restrictions established under ss. NR 675.10 to 675.15 unless and until the department recognizes EPA's approval. A person may petition the department to recognize an EPA approval by submitting the following to the department:

1. Copies of all materials and information submitted to EPA concerning the extension under 40 CFR 268.5 as of the federal register dated September 6, 1989;

2. Copies of all material and information received from EPA, including the EPA notice of approval, concerning the extension under 40 CFR 258.5 as of the federal register dated September 6, 1989; and

3. All other information that the department determines is necessary to evaluate the request for an extension.

(d) When determining whether to recognize an EPA-granted extension under 40 CFR 268.5 as of the federal register dated September 6, 1989, 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 268.5 as of the federal register dated September 6, 1989.

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

Note: An example of when an extension may be sought under this subsection is when there is a lack of treatment, recovery or disposal capacity.

(2) (a) Any person who seeks an exemption from a prohibition under ss. NR 675.10 to 675.15 for the disposal of a restricted hazardous waste in a particular unit or units shall submit a petition to the EPA pursuant to 40 CFR 268.6 as of July 1, 1989.

(b) If EPA denies a petition for an exemption under 40 CFR 268.6 as of July 1, 1989, the department shall recognize that denial.

(c) Persons who have had their petitions for an exemption approved by EPA under 40 CFR 268.6 as of July 1, 1989 shall continue to manage their wastes in compliance with any applicable restriction under ss. NR 675.10 to 675.15 unless and until the department recognizes EPA's approval. A person may petition the department to recognize an EPA approval by submitting the following to the department:

1. Copies of all materials and information submitted to EPA concerning the exemption under 40 CFR 268.6 as of July 1, 1989;

2. Copies of all material and information received from EPA including the EPA notice of approval concerning the exemption under 40 CFR 268.6; and

3. All other information that the department determines is necessary to evaluate the request for an exemption.

(d) When determining whether to recognize an EPA-granted exemption under 40 CFR 268.6 as of July 1, 1989, 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 268.6 as of July 1, 1989.

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

(3) The following hazardous wastes are not subject to any provision of this chapter:

(a) Waste generated by very small quantity generators of less than 100 kilograms of non-acute hazardous waste or less than 1 kilogram of acute hazardous waste per month as specified in s. NR 610.07.

(b) Waste pesticides that a farmer disposes of pursuant to the requirements under subs. (2) and (3) or NR 615.04 (2).

Note: The publication containing these regulations may be obtained from:

The Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

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

(c) Wastes identified or listed as hazardous after November 8, 1984 for which EPA has not promulgated land disposal restrictions or treatment standards.

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

NR 675.06 Dilution prohibition. No person may in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with ss. NR 675.20 to 675.24, to circumvent the effective date of a prohibition in ss. NR 675.10 to 675.14, to otherwise avoid a prohibition in ss. NR 675.10 to 675.14 or to circumvent a land disposal prohibition imposed by 42 USC 6924.

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

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

NR 675.07 Waste analysis and recordkeeping. (1) A generator shall test its waste or test an extract developed using the test method described in Appendix I - Toxicity - Characteristic Leaching Procedure (TCLP) of Register, February, 1991, No. 422

this chapter, or use knowledge of the waste, to determine if the waste is restricted from land disposal under this chapter.

(a) If a generator determines that it is managing a restricted waste under this chapter and the waste exceeds the applicable treatment standards, with each shipment of waste the generator shall notify the treatment or storage facility in writing of the appropriate treatment standards in ss. NR 675.20 to 675.24 and any applicable prohibitions in s. NR 675.12 or 42 USC 6924 (d).

1. The notice shall include the following information:
 - a. EPA hazardous waste number;
 - b. The corresponding treatment standard and all applicable prohibitions in s. NR 675.12 or 42 USC 6924 (d);
 - c. The manifest number associated with the shipment of waste; and
 - d. Waste analysis data, where available.
2. The generator shall keep a copy of this notice with the generator's copy of the manifest.

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 a generator determines that it is managing a restricted waste under this chapter, and determines that the waste may be disposed on land without further treatment, with each shipment of waste the generator shall submit, to the treatment, storage or land disposal facility, a notice and a certification stating that the waste meets applicable treatment standards in ss. NR 675.20 to 675.24 and the applicable prohibition levels in s. NR 675.12; or 42 USC 6924 (d).

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

1. The notice shall include the following information:
 - a. EPA hazardous waste number;
 - b. The corresponding treatment standard and all applicable prohibitions in s. NR 675.12;
 - c. The manifest number associated with the shipment of waste; and
 - d. Waste analysis data, where available.
2. The certification shall be signed by an authorized representative and shall state the following:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in ss. NR 675.20 to 675.24 and all applicable prohibitions in s. NR 675.12 or 42 USC 6924 (d). I believe that the information I submitted is true, accurate and complete. I am

aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

3. The generator shall keep a copy of this notice and certification with the generator's copy of the manifest.

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

(c) If a generator's waste is subject to an exemption from a prohibition against the type of land disposal method utilized for the waste, such as, but not limited to, a case-by-case extension under s. NR 675.05 (1) or an exemption under s. NR 675.05 (2) or a nationwide capacity variance under 40 CFR 268, Subpart C, as of the federal register dated September 6, 1989, with each shipment of waste the generator shall submit a notice to the facility receiving the waste stating that the waste is not prohibited from land disposal.

Note: The publication containing these regulations may be obtained from:

The Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

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

1. The notice shall include the following information:

- a. EPA hazardous waste number;
- b. The corresponding treatment standard and all applicable prohibitions in s. NR 675.12 or 42 USC 6924 (d) and information concerning the extension, exemption or variance;
- c. The manifest number associated with the shipment of waste;
- d. Waste analysis data, where available; and
- e. The date the waste is subject to the prohibition.

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

(d) If a generator determines the waste is restricted based solely on the generator's knowledge of the waste, all supporting data used to make this determination shall be retained on-site in the generator's files. If a generator determines the waste is restricted based on testing this waste or an extract developed using the test method described in Appendix I of this chapter, all waste analysis data shall be retained on-site in the generator's files.

(e) Generators shall retain on-site a copy of all notices, certifications, demonstrations, waste analysis data and other documentation produced pursuant to this section for at least 5 years from the date that the waste that is the subject of the documentation was last sent to on-site or off-site treatment, storage or disposal. Upon written notice from the department to the generator, the period of retention may be extended beyond 5 years.

(2) Treatment facilities shall test their wastes according to the frequency specified in their waste analysis plans as required by s. NR 630.13 (1) (h). Testing shall be performed as provided in pars. (a), (b) and (c).

(a) For wastes with treatment standards expressed as concentrations in the waste extract in s. NR 675.21, the owner or operator of the treatment facility shall test the treatment residues, or an extract of the residues developed using the test method described in Appendix I, to ensure that the treatment residues or extract meet the applicable treatment standards.

(b) For wastes that are prohibited under s. NR 675.12 but not subject to any treatment standards under ss. NR 675.20 to 675.24, the owner or operator of the treatment facility shall test the treatment residues according to the generator testing requirements specified in s. NR 675.12 to assure that the treatment residues comply with the applicable prohibitions.

(c) For wastes with treatment standards expressed as concentrations in the waste under s. NR 675.23, the owner or operator of the treatment facility shall test the treatment residues, not an extract of the residues, to assure that the treatment residues meet the applicable treatment standards.

(d) 1. A notice shall be sent with each waste shipment to the land disposal facility which includes the following information:

a. EPA hazardous waste number;

b. The corresponding treatment standard and all applicable prohibitions in s. NR 675.12 or 42 USC 6924 (d);

Note: The publication containing title 42 of the United States code may be obtained from:

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

c. The manifest number associated with the shipment of waste; and

d. Waste analysis data, where available.

2. The treatment facility shall keep a copy of this notice with the treatment facility's copy of the manifest.

(e) The treatment facility shall submit a certification with each shipment of waste or treatment residue of a restricted waste to the land disposal facility stating that the waste or treatment residue has been treated in compliance with the treatment standards in ss. NR 675.20 to 675.24 and the applicable prohibitions in s. NR 675.12 or 42 USC 6924 (d).

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

1. For wastes with treatment standards expressed as concentrations in the waste extract or in the waste, the certification shall be signed by an authorized representative and shall state the following:

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to achieve the performance levels specified in ss. NR 675.20 to 675.24 and all applicable prohibitions in s. NR 675.12 without dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

2. For wastes with treatment standards expressed as technologies of ss. NR 675.20 to 675.24 the certification shall be signed by an authorized representative and shall state the following:

I certify under penalty of law that the waste has been treated in accordance with the requirements under ss. NR 675.20 to 675.24. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

3. The treatment facility shall keep a copy of this certification with its copy of the manifest.

(f) If the waste or treatment residue will be further managed at a different treatment or storage facility, the treatment, storage or disposal facility sending the waste or treatment residue off-site shall comply with the notice and certification requirements applicable to generators under this section.

(g) The owner or operator of any land disposal facility disposing any waste subject to restrictions under this chapter shall:

1. Have copies of the notice and certifications specified in sub. (1) or (2) and the certification specified in s. NR 675.08.

2. Test the waste, or an extract of the waste or treatment residue developed using the test method described in Appendix I of this chapter or using any methods required by generators under s. NR 675.12 to assure that the wastes or treatment residues are in compliance with the applicable treatment standards in ss. NR 675.20 to 675.24 and all applicable prohibitions in s. NR 675.12 or 42 USC 6924 (d). Testing shall be performed according to the frequency specified in the facility's waste analysis plan as required by s. NR 630.13.

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

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

NR 675.09 Schedule for land disposal prohibition and establishment of treatment standards. (1) IDENTIFICATION OF WASTES TO BE EVALUATED BY AUGUST 8, 1988. EPA will take action under 42 USC 6924 (g) (5) and 42 USC 6924 (m) by August 8, 1988, for the following wastes:

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

Register, February, 1991, No. 422

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

Note: For ease of understanding the wastes have been listed by the section of ch. NR 605 under which they were listed.

(a) s. NR 605.09 (2) (a) Wastes

- F006 - Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
- F007 - Spent cyanide plating bath solutions from electroplating operations.
- F008 - Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process.
- F009 - Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.
- F019 - Wastewater treatment sludges from the chemical conversion coating of aluminum.

(b) s. NR 605.09 (2) (b) Wastes

- K001 - Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.
- K004 - Wastewater treatment sludge from the production of zinc yellow pigments.
- K008 - Over residue from the production of chrome oxide green pigments.
- K011 - Bottom stream from the wastewater stripper in the production of acrylonitrile.
- K013 - Bottom stream from the acetonitrile column in the production of acrylonitrile.
- K014 - Bottoms from the acetonitrile purification column in the production of acrylonitrile.
- K015 - Still bottoms from the distillation of benzyl chloride.
- K016 - Heavy ends or distillation residues from the production of carbon tetrachloride.
- K017 - Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
- K018 - Heavy ends from the fractionation column in ethyl chloride production.
- K020 - Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.

- K021 - Aqueous spent antimony catalyst waste from fluoromethanes production.
- K022 - Distillation bottom tars from the production of phenol/acetone from cumane.
- K024 - Distillation bottoms from the production of phthalic anhydride from naphthalene.
- K030 - Column bottom or heavy ends from the combined production of trichloroethylene and perchloroethylene.
- K031 - By-products salts generated in the production of MSMA and cacodylic acid.
- K035 - Wastewater treatment sludges generated in the production of creosote.
- K036 - Still bottoms from toluene reclamation distillation in the production of disulfoton.
- K037 - Wastewater treatment sludge from the production of disulfoton.
- K044 - Wastewater treatment sludges from the manufacturing and processing of explosives.
- K045 - Spent carbon from the treatment of wastewater containing explosives.
- K046 - Wastewater treatment sludges from the manufacturing, formulation and loading of lead based initiating compounds.
- K047 - Pink/red water from TNT operations.
- K048 - Dissolved air flotation (DAF) float from the petroleum refining industry.
- K049 - Stop oil emulsion solids from the petroleum refining industry.
- K050 - Heat exchange bundle cleaning sludge from the petroleum refining industry.
- K051 - API separator sludge from the petroleum refining industry.
- K052 - Tank bottoms (leaded) from the petroleum refining industry.
- K060 - Ammonia still lime sludge from coking operations.
- K061 - Emission control dust/sludge from the primary production of steel in electric furnaces.
- K062 - Spent pickle liquor from steel finishing operations in chlorine production.
- K069 - Emission control dust/sludge from secondary lead smelting.
- K071 - Brine purification muds from the mercury cells process in chlorine production, where separately prepurified brine is not used.
- K073 - Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes.

- K083 - Distillation bottoms from aniline production.
- K084 - Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
- K085 - Distillation of fractionation column bottoms from the production of chlorobenzenes.
- 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.
- K087 - Decanter tank tar sludge from coking operations.
- K099 - Untreated wastewater from the production of 2,4-D.
- K101 - Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
- K102 - Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
- K103 - Process residues from aniline extraction from the production of aniline.
- K104 - Combined wastewater streams generated from nitrobenzene/aniline production.
- K106 - Waste water treatment sludge from the mercury cell process in chlorine production.

(c) s. NR 605.09 (3) (b) Wastes

- P001 - Warfarin, when present at concentration greater than 0.3%
- P004 - Aldrin
- P005 - Allyl alcohol
- P010 - Arsenic acid
- P011 - Arsenic (V) oxide
- P012 - Arsenic (III) oxide
- P015 - Beryllium dust
- P016 - Bis-(chloromethyl) ether
- P018 - Brucine
- P020 - Dinoseb
- P030 - Soluble cyanide salts not elsewhere specified
- P036 - Dichlorophenylarsine
- P037 - Dieldrin
- P039 - Disulfoton

- P041 - Diethyl-p-nitrophenyl phosphate
- P048 - 2,4-Dinitrophenol
- P050 - Endosulfan
- P058 - Fluoroacetic acid, sodium salt
- P059 - Heptachlor
- P063 - Hydrogen cyanide
- P068 - Methyl Hydrazine
- P069 - Methylactonitrile
- P070 - Aldicarb
- P071 - Methyl parathion
- P081 - Nitroglycerine
- P082 - N-Nitrosodimethylamine
- P084 - N-Nitrosomethylvinylamine
- P087 - Osmium tetroxide
- P089 - Parathion
- P092 - Phenylmercuric acetate
- P094 - Phorate
- P097 - Famphur
- P102 - Propargyl alcohol
- P105 - Sodium azide
- P108 - Strychnine and salts
- P110 - Tetraethyl lead
- P115 - Thallium (I) sulfate
- P120 - Vanadium pentoxide
- P122 - Zinc phosphide, when present at concentrations greater than 10%
- P123 - Toxaphene

(d) s. NR 605.09 (3) (c) Wastes

- U007 - Acrylamide
- U009 - Acrylonitrile
- U010 - Mitomycin C
- U012 - Aniline
- U016 - Benz(c)acridine
- U018 - Benz(a)anthracene

- U019 - Benzene
- U022 - Benzo(a)pyrene
- U029 - Methyl bromide
- U031 - n-Butanol
- U036 - Chlordane, technical
- U037 - Chlorobenzene
- U041 - n-Chloro-2,3-epoxypropane
- U043 - Vinyl chloride
- U044 - Chloroform
- U046 - Chloromethyl methyl ether
- U050 - Chrysene
- U051 - Creosote
- U053 - Crotonaldehyde
- U061 - DDT
- U063 - Dibenz o (a, h) anthracene
- U064 - 1,2:7,8 Dibenzo pyrene
- U066 - Dibromo-3-chloropropane 1,2
- U067 - Ethylene dibromide
- U074 - 1,4-Dichloro-2-butene
- U077 - Ethane, 1,2-dichloro
- U078 - Dichloroethylene, 1,1
- U086 - N,N Diethylhydrazine
- U089 - Diethylstilbestrol
- U103 - Dimethyl sulfate
- U105 - 2,4-Dinitrotoluene
- U108 - Dioxane, 1,4
- U115 - Ethylene oxide
- U122 - Formaldehyde
- U124 - Furan
- U129 - Lindane
- U130 - Hexachlorocyclopentadiene
- U133 - Hydrazine
- U134 - Hydrofluoric acid
- U137 - Indeno(1,2,3-cd)pyrene

- U151 - Mercury
- U154 - Methanol
- U155 - Methapyrilene
- U157 - 3-Methylcholanthrene
- U158 - 4,4-Methylene-bis-(2-chloroaniline)
- U159 - Methyl ethyl ketone
- U171 - Nitropropane, 2
- U177 - N-Nitroso-N-methylurea
- U180 - N-Nitrosopyrrolidine
- U185 - Pentachloronitrobenzene
- U188 - Phenol
- U192 - Pronamide
- U200 - Reserpine
- U209 - Tetrachloroethane, 1,1,2,2
- U210 - Tetrachloroethylene
- U211 - Carbon tetrachloride
- U219 - Thiourea
- U220 - Toluene
- U221 - Toluenediamine
- U223 - Toluene diisocyanate
- U226 - Methylchloroform
- U227 - Trichloroethane, 1,1,2
- U228 - Trichloroethylene
- U237 - Uracil mustard
- U238 - Ethyl carbamate
- U248 - Warfarin, when present at concentrations of 0.3% or less
- U249 - Zinc phosphide, when present at concentrations of 10% or less

(2) IDENTIFICATION OF WASTES TO BE EVALUATED BY JUNE 8, 1989. By June 8, 1989, EPA will take action under the resource conservation and recovery act to evaluate the hazardous wastes associated with the following waste codes for either appropriate treatment technologies or standard or both. A description of each waste can be found in ch. NR 605.

Table I - Second Third Wastes

F010	F011	F012	F024
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Table I - Second Third Wastes

K009	K010	K019	K025	K027	K028	K029
K038	K039	K040	K041	K042	K043	K095
K096	K097	K098	K105			
P002	P003	P007	P008	P014	P026	P027
P029	P040	P043	P044	P049	P054	P057
P060	P062	P066	P067	P072	P074	P085
P098	P104	P106	P107	P111	P112	P113
P114						
U002	U003	U005	U008	U011	U014	U015
U020	U021	U023	U025	U026	U028	U032
U035	U047	U049	U057	U058	U059	U060
U062	U070	U073	U080	U083	U092	U093
U094	U095	U097	U098	U099	U101	U106
U107	U109	U110	U111	U114	U116	U119
U127	U128	U131	U135	U138	U140	U142
U143	U144	U146	U147	U149	U150	U161
U162	U163	U164	U165	U168	U169	U170
U172	U173	U174	U176	U178	U179	U189
U193	U196	U203	U205	U206	U208	U213
U214	U215	U216	U217	U218	U235	U239
U244						

(3) IDENTIFICATION OF WASTES TO BE EVALUATED BY MAY 8, 1990. By May 8, 1990, EPA will take action under the resource conservation and recovery act to evaluate the hazardous wastes associated with the following waste codes for either appropriate treatment technologies or standard or both. A description of each waste can be found in ch. NR 605.

Table II - Final Third Wastes

K002	K003	K005	K006	K007	K023	K026
K032	K033	K034	K093	K094	K100	
P006	P009	P013	P017	P021	P022	P023
P024	P028	P031	P033	P034	P038	P042
P045	P046	P047	P051	P056	P064	P065
P073	P075	P076	P077	P078	P088	P093
P095	P096	P099	P101	P103	P109	P116
P118	P119	P121				
U001	U004	U006	U017	U024	U027	U030

Table II - Final Third Wastes

U033	U034	U038	U039	U042	U045	U048
U052	U055	U056	U068	U069	U071	U072
U075	U076	U079	U081	U082	U084	U085
U087	U088	U090	U091	U096	U102	U112
U113	U117	U118	U120	U121	U123	U125
U126	U132	U136	U139	U141	U145	U148
U152	U153	U156	U160	U166	U167	U181
U182	U183	U184	U186	U187	U190	U191
U194	U197	U201	U202	U204	U207	U222
U225	U234	U236	U240	U243	U246	U247

(4) EPA EVALUATION BASED UPON CHARACTERISTIC. By May 8, 1990, EPA shall take action under the resource conservation and recovery act to evaluate all wastes identified as hazardous based on a characteristic alone for either appropriate treatment technologies or standard or both.

Note: Examples of wastes identified hazardous based on a characteristic alone include corrosivity, reactivity, ignitability and EP toxicity.

(5) Wastewater residues, with less than 1% total organic carbon and less than 1% total suspended solids, resulting from the following well designed and well operated treatment methods for wastes listed in subs. (1) and (2) for which EPA has not promulgated wastewater treatment standards:

- (a) Metals recovery;
- (b) Metals precipitation;
- (c) Cyanide destruction;
- (d) Carbon adsorption;
- (e) Chemical oxidation steam stripping;
- (f) Biodegradation; and
- (g) Incineration or other direct thermal destruction.

(6) Hazardous wastes listed in subs. (1) and (2) that are mixed radioactive and hazardous wastes.

(7) Multi-source leachate that is derived from disposal of any listed waste, except from hazardous waste D020, F021, F022, F023, F026, F027 or F028.

(8) Nonwastewater forms of wastes listed in s. NR 675.09 (1) that were originally disposed before August 17, 1988 and for which EPA has promulgated "no land disposal" as the treatment standard at s. NR 675.23, table CCW, no land disposal subtable. This provision does not apply to waste codes K044, K045, K047, and K061, high zinc subcategory.

(9) Nonwastewater forms of wastes listed in s. NR 675.09 (1) for which EPA has promulgated "no land disposal" as the treatment standard at s. NR 675.23, table CCW, no and disposal subtable, that are generated in the course of treating wastewater forms of the wastes. This provision does not apply to waste codes K044, K045, K047 and K061, high zinc subcategory.

(10) Nonwastewater forms of waste codes K015 and K083.

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

NR 675.10 Waste specific prohibitions - solvent wastes. (1) Effective March 1, 1991, the spent solvent wastes specified as hazardous by EPA hazardous waste nos. F001, F002, F003, F004 and F005, are prohibited from land disposal.

(2) Effective March 1, 1991, the F001 to F005 solvent wastes which are contaminated soil and debris resulting from a response action taken under 42 USC 9604 or 42 USC 9606 or a corrective action required under 42 USC 6921 to 6939a and the residues from treating these wastes are prohibited from land disposal.

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

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

(3) The requirements of subs. (1) and (2) do not apply if:

(a) The wastes meet the treatment standards of ss. NR 675.20 to 675.24; or

(b) Persons have been granted an exemption from a prohibition pursuant to a no migration petition for a waste under s. NR 675.05 (2) with respect to those wastes and units covered by the petition; or

(c) Persons have been granted an extension to the effective date of a prohibition for a waste due to a nationwide capacity shortage pursuant to s. NR 675.05 (3), with respect to those wastes covered by the extension.

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

NR 675.11 Waste specific prohibitions - wastes containing dioxin. (1) Effective March 1, 1991, dioxin containing wastes specified as hazardous by EPA hazardous waste nos. F020, F021, F022, F023, F026, F027 and F028 are prohibited from land disposal.

Note: The publication containing these regulations may be obtained from:

The Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

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

(2) The requirements of sub. (1) do not apply if:

(a) The wastes meet the standards of ss. NR 675.20 to 675.24; or,

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(b) Persons have been granted an exemption from a prohibition pursuant to a no migration petition for a waste under s. NR 675.05 (3), with respect to those wastes and units covered by the petition; or

(c) Persons have been granted an extension to the effective date of a prohibition pursuant to s. NR 675.05 (1), with respect to those wastes covered by the extension.

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

NR 675.12 Waste specific prohibitions - California list. (1) The following hazardous wastes are prohibited from land disposal effective March 1, 1991:

(a) Liquid hazardous wastes having a pH less than or equal to 2.0;

(b) Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm;

(c) Liquid hazardous wastes that are primarily water and contain halogenated organic compounds (HOCs) in total concentration greater than or equal to 1,000 mg/l and less than 10,000 mg/l HOCs.

(d) Liquid hazardous wastes that contain HOCs in total concentration greater than or equal to 1,000 mg/l and are not prohibited under par. (c); and

(e) Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1,000 mg/kg.

Note: The term halogenated organic compound is defined in s. NR 600.03 (85) and includes compounds listed in Appendix III to this chapter.

(2) The requirements of sub. (1) does not apply if:

(a) Persons have been granted an exemption from a prohibition pursuant to a no migration petition for a waste under s. NR 675.05 (2), with respect to those wastes and units covered by the petition, except for liquid hazardous wastes containing polychlorinated biphenyls at concentrations greater than or equal to 500 ppm which are not eligible for the exemptions; or

(b) Persons have been granted an extension to the effective date of a prohibition for a waste pursuant to s. NR 675.05 (1), with respect to those wastes covered by the extension; or

(c) The wastes meet the applicable standards specified in ss. NR 675.20 to 675.24 or, where treatment standards are not specified, the wastes are in compliance with the applicable prohibitions in this chapter, or 42 USC 6924 (d).

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

(d) An exemption has been granted under s. NR 675.05 (3) due to a shortage of treatment capacity.

(3) The prohibitions and effective dates specified in sub. (1) does not apply where the waste is subject to a prohibition and effective date for a specified HOC.

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Note: An example of a specified HOC would be a hazardous waste chlorinated solvent.

(4) To determine whether or not a waste is a liquid under this section, the following test shall be used: Method 9095, Paint Filter Liquids Test, as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846.

Note: The publication containing this test may be obtained from:

National Technical Information Service
U.S. Department of Commerce
Springfield, Virginia 22161

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

(5) Except as otherwise provided in this subsection, the waste analysis and recordkeeping requirements of s. NR 675.07 are applicable to wastes prohibited under this chapter or 42 USC 6924 (d).

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

(a) The initial generator of a liquid hazardous waste shall test its waste, not an extract or filtrate, in accordance with the procedures specified in s. NR 605.08, or use knowledge of the waste, to determine if the waste has a pH less than or equal to 2.0.

Note: If the liquid waste has a pH less than or equal to 2.0, it is restricted from land disposal and all requirements of this chapter are applicable, except as otherwise specified in this section.

(b) The initial generator of either a liquid hazardous waste containing polychlorinated biphenyls (PCBs) or a liquid or nonliquid hazardous waste containing halogenated organic compounds (HOCs) shall test its waste, not an extract or filtrate, or use knowledge of the waste, to determine whether the concentration levels in the waste equal or exceed the prohibition levels specified in this section.

Note: If the concentration of PCBs or HOCs in the waste is greater than or equal to the prohibition levels specified in this section, the waste is restricted from land disposal and all requirements of this chapter are applicable, except as otherwise specified in this section.

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

NR 675.13 Waste specific prohibitions - first third wastes. (1) The wastes specified as hazardous by EPA hazardous waste nos. F006 (nonwastewater), K001, K004 wastes specified in s. NR 675.23 (1), K008 wastes specified in s. NR 675.23 (1), K016, K018, K019, K020, K021 wastes specified in s. NR 675.23 (1), K022 (nonwastewater), K024, K025 nonwastewaters specified in s. NR 675.23 (1), K030, K036 (nonwastewater), K037, K044, K045, nonexplosive K046 (nonwastewater), K047, K060 (nonwastewater), K061 (nonwastewaters containing less than 15% zinc), K062, non CaSO₄ K069 (nonwastewaters), K086 (solvent washes), K087, K099, K100 nonwastewaters specified in s. NR 675.23 (1), K101 (wastewater), K101 (nonwastewater, low arsenic subcategory - less than 1% total arsenic), K102 (wastewater), K102 (nonwastewater, low arsenic subcategory - less than 1% total arsenic), K103 and K104 are prohibited from land disposal.

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(2) Effective March 1, 1991, wastes specified as hazardous by EPA hazardous waste nos. K048, K049, K050, K051, K052, K061 (containing 15% zinc or greater) and K071 are prohibited from land disposal.

(3) Effective March 1, 1991, the wastes specified in s. NR 675.09 (1) having a treatment standard in ss. NR 675.20 to 675.24 based on incineration and which are contaminated soil and debris are prohibited from land disposal.

(4) The requirements of subs. (1) to (3) do not apply if:

(a) The wastes meet the applicable standards specified in ss. NR 675.20 to 675.24; or

(b) Persons have been granted an exemption from a prohibition pursuant to a no migration petition for a waste under s. NR 675.05 (2), with respect to those wastes and units covered by the petition; or

(c) Persons have been granted an extension to the effective date of a prohibition for a waste pursuant to s. NR 675.05 (1), with respect to those wastes covered by the extension.

(d) An exemption has been granted due to a shortage of treatment capacity by s. NR 675.05 (3).

(5) To determine whether a hazardous waste listed in s. NR 675.09 (1) exceeds the applicable treatment standards specified in ss. NR 675.20 to 675.24, the initial generator shall test a representative sample of the waste extract or the entire waste depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable ss. NR 675.20 to 675.24 levels, the waste is prohibited from land disposal and all requirements of this chapter are applicable, except as otherwise specified.

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

NR 675.14 Waste specific prohibitions - second third wastes. (1) Effective March 1, 1991, the following wastes specified in s. NR 605.09 (2) as EPA hazardous waste nos. F010; F024; the wastes specified in s. NR 605.09 (2) (b) as EPA hazardous waste nos. K005, K007, K009 (nonwastewaters), K010, K023, K027, K028, K029 (nonwastewaters), K036 (wastewaters), K038, K039, K040, K043, K093, K094, K095 (nonwastewaters), K096 (nonwastewaters), K113, K114, K115, K116 and the wastes specified in s. NR 605.09 (3) (b) as EPA hazardous wastes nos. P013, P021, P029, P030, P039, P040, P041, P043, P044, P062, P063, P071, P074, P085, P089, P094, P097, P098, P099, P104, P106, P109, P111, P121, U028, U058, U069, U087, U088, U102, U107, U221, U223 and U235 are prohibited from land disposal.

(2) Effective March 1, 1991, the wastes specified in s. NR 605.09 (2) (b) as EPA hazardous waste nos. K009 (wastewaters), K011 (nonwastewaters), K013 (nonwastewaters) and K014 (nonwastewaters) are prohibited from land disposal.

(3) Effective March 1, 1991, the wastes specified in s. NR 605.09 (2) as EPA hazardous wastes nos. F006 — cyanide (nonwastewater), F008, F009, F011 (wastewaters) and F012 (wastewaters) are prohibited from land disposal.

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(4) Effective March 1, 1991, the waste specified in s. NR 605.09 (2) as EPA hazardous waste no. F007 is prohibited from land disposal.

(5) Effective March 1, 1991, F011 (nonwastewaters) and F012 (nonwastewaters) are prohibited from land disposal pursuant to the treatment standards specified in ss. NR 675.21 and 675.23 applicable to F011 (nonwastewaters) and F012 (nonwastewaters).

(6) Effective June 8, 1991, the wastes specified in this section have a treatment standard in ss. NR 675.20 to 675.24 based on incineration, and which are contaminated soil and debris are prohibited from land disposal.

(7) Between March 1, 1991 and June 8, 1991, wastes included in subs. (3) to (6) except for F007, F008, F009, F011 and F012 may be disposed in a landfill or surface impoundment, regardless whether the unit is a new, replacement or lateral expansion unit, only if the unit is in compliance with the technical requirements specified in 40 CFR 268.5 (h) (2) as of the federal register dated September 6, 1989.

Note: The publication containing these regulations may be obtained from:

The Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

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

(8) The requirements of subs. (1) to (6) do not apply if:

(a) The wastes meet the applicable standards specified in ss. NR 675.20 to 675.24, or

(b) Persons have been granted an exemption from a prohibition pursuant to a petition under s. NR 675.05 (2) regarding those wastes and units covered by the petition.

(9) The requirements of subs. (1) to (5) do not apply if persons have been granted an extension to the effective date of a prohibition pursuant to the requirements under 40 CFR 268.5 as of July 1, 1989, with respect to those wastes covered by the extension.

Note: The publication containing these regulations may be obtained from:

The Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

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

(10) To determine whether a hazardous waste listed in s. NR 675.09 exceeds the applicable treatment standards specified in ss. NR 675.21 and 675.23, the initial generator shall test a representative sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable ss. NR 675.20 to 675.24 levels, the waste is prohibited from land disposal and all requirements of this chapter are applicable, except as otherwise specified.

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

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NR 675.20 Applicability of treatment standards. (1) A restricted waste identified in s. NR 675.21 may be disposed on land only if an extract of the waste or of the treatment residual of the waste developed using the test method of Appendix I of this chapter does not exceed the value shown in Table CCWE of s. NR 675.21 for any hazardous constituent listed in Table CCWE for that waste.

(2) A restricted waste for which a treatment technology is specified under s. NR 675.22 (1) may be disposed on land after it is treated using that specified technology or an equivalent treatment method approved under s. NR 675.22 (2).

(3) A restricted waste identified in s. NR 675.23 may be disposed on land only if the constituent concentrations in the waste or treatment residue of the waste do not exceed the value shown in Table CCW of s. NR 675.23 for any hazardous constituent listed in Table CCW for that waste.

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

NR 675.21 Treatment standards expressed as concentrations in waste extract. (1) Table CCWE identifies the restricted wastes and the concentrations of their associated hazardous constituents which may not be exceeded by the extract of a waste or waste treatment residual developed using the test method in Appendix I of this chapter for the allowable land disposal of the waste.

Note: Appendix II of this chapter provides guidance on treatment methods that have been shown to achieve the Table CCWE levels for the respective wastes. Appendix II is not a regulatory requirement but is provided to assist generators, owners and operators in their selection of appropriate treatment methods.

Table CCWE-Constituent Concentrations in Waste Extract

	Concentration (in mg/l) Wastewaters containing spent solvents	All Other spent solvent wastes
F001-F005 Spent Solvents		
Acetone	0.05	0.59
n-Butyl alcohol	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobenzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cyclohexanone	.125	.75
1,2-Dichlorobenzene	.65	.125
Ethyl acetate	.05	.75
Ethylbenzene	.05	.053
Ethyl ether	.05	.75
Isobutanol	5.05	.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methyl ethyl ketone	0.050	.75
Methyl isobutyl ketone	0.050	.33
Nitrobenzene	0.660	.125

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Table CCWE-Constituent Concentrations in Waste Extract

Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,1,2-Trichloro-1,2,2		
Trifluoroethane	1.05	0.96
Trichloroethylene	0.062	0.091
Trichlorofluoromethane	0.05	0.96
Xylene	0.05	0.15
F006 nonwastewaters (see also Table CCW in s. NR 675.23)	Concentration (in mg/l)	
Cadmium	0.066	
Chromium	5.2	
Lead	.51	
Nickel	.32	
Silver	.072	
F007, F008 and F009 nonwastewaters (see also table CCW in s. NR 675.23)	Concentration (in mg/l)	
Cadmium	0.066	
Chromium (total)	5.2	
Lead	0.51	
Nickel	0.32	
Silver	0.072	
F011 and F012 nonwastewaters (see also table CCW in s. NR 675.23)	Concentrations (in mg/l)	
Cadmium	0.066	
Chromium (total)	5.2	
Lead	0.51	
Nickel	0.32	
Silver	0.072	
F020-F023 and F026-F028 Dioxin Containing Wastes	Concentration	
HxCDD-All Hexachlorodibenzo-p-dioxins	< 1 ppb	
HxCDF-All Hexachlorodibenzofurans	< 1 ppb	
PeCDD-All Pentachlorodibenzo-p-dioxins	< 1 ppb	
PeCDF-All Pentachlorodibenzofurans	< 1 ppb	
TCDD-All Tetrachlorodibenzo-p-dioxins	< 1 ppb	

Table CCWE-Constituent Concentrations in Waste Extract

TCDF-All Te-trachlorodibenzofurans	< 1 ppb
2,4,5-Trichlorophenol	< 0.05 ppm
2,4,6-Trichlorophenol	< 0.05 ppm
2,3,4,6-Tetrachlorophenol	< 0.10 ppm
Pentachlorophenol	< 0.01ppm
F024 nonwastewaters (see also table CCW in s. NR 675.23)	Concentrations (in mg/l)
Chromium (total)	Reserved
Nickel	Reserved
K001 nonwastewaters (see also Table CCW in s. NR 675.23)	Concentration (in mg/l)
Lead	0.51
K022 nonwastewaters (see also Table CCW in s. NR 675.23)	Concentrations (in mg/l)
Chromium (Total)	5.2
Nickel	0.32
K028 nonwastewaters (see also table CCW in s.NR 675.23)	Concentrations (in mg/l)
Chromium (total)	Reserved
Nickel	Reserved
K046 nonwastewaters (Nonreactive Subcategory)	Concentration (in mg/l)
Lead	0.18
K048, K049, K050, K051 and K052 nonwastewaters (see also table CCW in s. NR 675.23)	Concentration (in mg/l)
Arsenic	0.004
Chromium (Total)	1.7
Nickel	0.048
Selenium	0.025
K061 nonwastewaters (Low Zinc Subcategory less than 15% total zinc)	Concentration (in mg/l)
Cadmium	0.14
Chromium (Total)	5.2
Lead	0.24
Nickel	0.32
K062 nonwastewaters	Concentration (in mg/l)
Chromium (Total)	0.094
Lead	0.37

Table CCWE-Constituent Concentrations in Waste Extract

K071 nonwastewaters	Concentration (in mg/l)
Mercury	0.025
K086 nonwastewaters (Solvent Washes Subcategory) (See also Table CCW in s. NR 675.23)	Concentration (in mg/l)
Chromium (Total)	0.094
Lead	0.37
K087 nonwastewaters (see also Table CCW in s. NR 675.23)	Concentration (in mg/l)
Lead	0.51
K101 and K102 nonwastewaters (Low Arsenic - Subcategory - less than 1% Total Arsenic) (See also Table CCW in s. NR 675.23)	Concentration (in mg/l)
Cadmium	0.066
Chromium (Total)	5.2
Lead	0.51
Nickel	0.32
K115 nonwastewaters (see also table)	Concentrations (in mg/l) CCW in s.NR 675.23)
Nickel	0.32
P074 nonwastewaters (see also table)	Concentrations (in mg/l)
CCW in s. NR 675.23)	
Nickel	0.32
P099 nonwastewaters (see also table)	Concentrations (in mg/l)
CCW in s. NR 675.23)	
Silver	0.072
P104 nonwastewaters (see also table)	Concentrations (in mg/l)
CCW in s. NR 675.23)	
Silver	0.072

(2) When wastes with differing treatment standards for a constituent of concern are combined for purposes of treatment, the treatment residue shall meet the lowest treatment standard for the constituent of concern.

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

NR 675.22 Treatment standards expressed as specified technologies. (1) The following wastes shall be treated using the identified technology or technologies, unless an equivalent method is approved by EPA.

(a) Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm shall be incinerated in accordance with the technical requirements of s. NR 157.07. Thermal treatment under this section shall also be in compliance with applicable regulations in chs. NR 625 and 665.

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(b) Nonliquid hazardous wastes containing halogenated organic compounds (HOCs) in total concentration greater than or equal to 1,000 mg/kg and liquid HOC-containing wastes that are prohibited under s. NR 675.12 (1) (d) shall be incinerated in accordance with the requirements of ch. NR 665, or burned in boilers or industrial furnaces burning in accordance with applicable regulatory standards. These treatment standards do not apply where the waste is subject to a ch. NR 675 treatment standard for a specific HOC, such as a hazardous waste chlorinated solvent for which a treatment standard is established under s. NR 675.21 (1).

(c) The nonwastewater form of the following hazardous wastes listed in s. NR 675.09 shall be incinerated in accordance with the requirements of ch. NR 665, or burned in boilers or industrial furnaces burning in accordance with applicable regulatory standards: K027, K039, K113, K114, K115, K116, P040, P041, P043, P044, P062, P085, P109, P111, U058, U087, U221 and U223.

(d) The wastewater form of the following hazardous wastes listed in s. NR 675.09 shall be treated by carbon adsorption, incineration or pretreatment followed by carbon adsorption: K027, K039, K113, K114, K115, K116, P040, P041, P043, P044, P062, P085, P109, P111, U058, U087, U221 and U223.

(2) (a) Any person may submit an application to EPA demonstrating that an alternative treatment method can achieve a level of performance equivalent to that achieved by methods specified in sub. (1). The applicant shall submit information demonstrating that the treatment method will not present an unreasonable risk to human health or the environment and is in compliance with federal, state and local requirements. On the basis of the information and any other available information, EPA may approve the use of the alternative treatment method if it finds that the alternative treatment method provides a level of performance equivalent to that achieved by methods specified in sub. (1). Any approval shall be stated in writing and may contain the provisions and conditions as EPA deems appropriate. The person to whom the certification is issued shall comply with all limitations contained in the determination.

(b) If EPA denies an application for an alternative treatment method under par. (a), the department shall recognize that denial.

(c) Persons who have had their applications for an alternative treatment method approved by EPA under par. (a) shall continue to use the treatment method specified in sub. (1) unless and until the department recognizes EPA's approval of an alternative treatment method. A person may petition the department to recognize an EPA alternative treatment method by submitting the following to the department:

1. Copies of all materials and information submitted to EPA concerning the alternative treatment method;
2. Copies of all materials and information received from EPA, including the EPA notice of approval, concerning the alternative treatment method;
3. All other information that the department determines is necessary to evaluate the request for an alternative treatment method.

(d) When determining whether to recognize an EPA-approved alternative treatment method, 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 par. (a).

(e) The department shall recognize the EPA-approved alternative treatment method unless the department clearly establishes that the alternative treatment method would threaten human health or the environment.

(3) Approval by EPA and the department of an alternative treatment method under sub. (2) shall allow a facility to dispose on land prohibited waste under this chapter.

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

NR 675.23 Treatment standards expressed in waste concentrations. (1) Table CCW identifies the restricted wastes and the concentrations of their associated hazardous constituents which may not be exceeded by the waste or treatment residual, not an extract of the waste or residual, for the allowable land disposal of the waste or residual. The wastewater and nonwastewater treatment standards in Table CCW are based on analysis of grab samples except the wastewater treatment standards that are based on analysis of composite samples for wastes, K009, K010, K036, K038, K040, P039, P071, P089, P094, P097 and U235.

Table CCWE-Constituent Concentrations in Waste Extract

F001, F002, F003, F004 and F005 wastewaters (Pharmaceutical Industry)	Concentration (in mg/l)
Methylene chloride	0.44
F006 nonwastewaters (see also table CCWE in s. NR 675.21)	Concentrations (in mg/kg)
Cyanides (total)	590
Cyanides (amenable)	30
F007, F008 and F009 nonwastewaters (see also table CCWE in s. NR 675.21)	Concentrations (in mg/kg)
Cyanides (total)	590
Cyanides (amenable)	30
F007, F008 and F009 wastewaters (see also table CCWE in s. NR 675.21)	Concentrations (in mg/l)
Cyanides (total)	1.9
Cyanides (amenable)	0.10
Chromium (total)	0.32
Lead	0.04
Nickel	0.44
F010 nonwastewaters	Concentrations (in mg/kg)
Cyanides (total)	1.5
F010 wastewaters	Concentrations (in mg/l)
Cyanides (total)	1.9
Cyanides (amenable)	0.10
F011 and F012 nonwastewaters	Concentrations (in mg/kg)

Table CCWE-Constituent Concentrations in Waste Extract

Cyanides (total)	110
Cyanides (amenable)	9.1
F011 and F012 wastewaters (see also Table CCWE in s. NR 675.21).	Concentrations (in mg/l)
Cyanides (total)	1.9
Cyanides (amenable)	0.10
Chromium (total)	0.32
Lead	0.04
Nickel	0.44
F024 nonwastewaters (see also table CCWE in s. NR 675.21)	Concentrations (in mg/kg)
2-Chloro-1,3-butadiene	0.28
3-Chloropropene	0.28
1,1-Dichloroethane	0.014
1,2-Dichloroethane	0.014
1,2-Dichloropropane	0.014
cis-1,3-Dichloropropene	0.014
trans-1,3-Dichloropropene	0.014
Bis(2-ethylhexyl)phthalate	1.8
Hexachloroethane	1.8
Hexachlorodibenzo-furans	0.001
Hexachlorodibenzo-p-dioxins	0.001
Pentachlorodibenzo-furans	0.001
Pentachlorodibenzo-p-dioxins	0.001
Tetrachlorodibenzo-furans	0.001
F024 wastewaters (see also table CCWE in s. NR 675.21)	Concentrations (in mg/l)
2-Chloro-1,3-butadiene	0.28
3-Chloropropene	0.28
1,1-Dichloroethane	0.014
1,2-Dichloroethane	0.014
1,2-Dichloropropane	0.014
cis-1,3-Dichloropropene	0.014
trans-1,3-Dichloropropene	0.014
Bis(2-ethylhexyl) phthalate	0.036
Hexachloroethane	0.036
Hexachlorodibenzo-furans	0.001
Hexachlorodibenzo-p-dioxins	0.001
Pentachlorodibenzo-furans	0.001
Pentachlorodibenzo-p-dioxins	0.001
Tetrachlorodibenzo-furans	0.001

Table CCWE-Constituent Concentrations in Waste Extract

Chromium (total)	0.35
Nickel	0.47
K001 nonwastewaters (see also Table CCWE in s. NR 675.21)	Concentration (in mg/kg)
Naphthalene	8.0
Pentachlorophenol	37.0
Phenanthrene	8.0
Pyrene	7.3
Toluene	0.14
Xylenes	0.16
K001 wastewaters	Concentration (in mg/l)
Naphthalene	0.15
Pentachlorophenol	0.88
Phenanthrene	0.15
Pyrene	0.14
Toluene	0.14
Xylenes	0.16
Lead	0.037
K009 and K010 nonwastewaters	Concentration (in mg/kg)
Chloroform	6.0
K009 and K010 wastewaters	Concentration (in mg/l)
Chloroform	0.10
K011, K013, and K014 nonwastewaters	Concentration (in mg/kg)
Acetonitrile	1.8
Acrylonitrile	1.4
Acrylamide	23.0
Benzene	0.03
Cyanides (Total)	57.0
K015 wastewaters	Concentration (in mg/l)
Anthracene	1.0
Benzal chloride	0.28
Benzo (b and/or k) fluoranthene	0.29
Phenanthrene	0.27
Toluene	0.15
Chromium (Total)	0.32
Nickel	0.44
K016 nonwastewaters	Concentration (in mg/kg)
Hexachlorobenzene	28.0
Hexachlorobutadiene	5.6
Hexachlorocyclopentadiene	5.6
Hexachloroethane	28.0

Table CCWE-Constituent Concentrations in Waste Extract

Tetrachloroethene	6.0
K016 wastewaters	Concentration (in mg/l)
Hexachlorobenzene	0.033
Hexachlorobutadiene	0.007
Hexachlorocyclopentadiene	0.007
Hexachloroethane	0.033
Tetrachloroethene	0.007
K018 nonwastewaters	Concentration (in mg/kg)
Chloroethane	6.0
1,1-Dichloroethane	6.0
1,2-Dichloroethane	6.0
Hexachlorobenzene	28.0
Hexachlorobutadiene	5.6
Hexachloroethane	28.0
Pentachloroethane	5.6
1,1,1-Trichloroethane	6.0
K018 wastewaters	Concentration (in mg/l)
Chloroethane	0.007
Chloromethane	0.007
1,1-Dichloroethane	0.007
1,2-Dichloroethane	0.007
Hexachlorobenzene	0.033
Hexachlorobutadiene	0.007
Pentachloroethane	0.007
1,1,1-Trichloroethane	0.007
K019 nonwastewaters	Concentration (in mg/kg)
Bis(2-chloroethyl)ether	5.6
Chlorobenzene	6.0
Chloroform	6.0
1,2-Dichloroethane	6.0
Hexachloroethane	28.0
Naphthalene	5.6
Phenanthrene	5.6
Tetrachloroethene	6.0
1,2,4-Trichlorobenzene	19.0
1,1,1-Trichloroethane	6.0
K019 wastewaters	Concentration (in mg/l)
Bis(2-chloroethyl)ether	0.007
Chlorobenzene	0.006
Chloroform	0.007
p-Dichlorobenzene	0.008

Table CCWE-Constituent Concentrations in Waste Extract

1,2-Dichloroethane	0.007
Fluorene	0.007
Hexachloroethane	0.033
Naphthalene	0.007
Phenanthrene	0.007
1,2,4,5-Tetrachlorobenzene	0.017
Tetrachloroethene	0.007
1,2,4-Trichlorobenzene	0.023
1,1,1-Trichloroethane	0.007
K020 nonwastewaters	Concentration (in mg/kg)
1,2-Dichloroethane	6.0
1,1,2,2-Tetrachloroethane	5.6
Tetrachloroethene	6.0
K020 wastewaters	Concentration (in mg/l)
1,2-Dichloroethane	0.007
1,1,2,2-Tetrachloroethane	0.007
Tetrachloroethene	0.007
K022 nonwastewaters (see also Table CCWE in s. NR 675.21)	Concentration (in mg/kg)
Acetophenone	19.0
Sum of Diphenylamine and Diphenyl- trosamine	13.0
Phenol	12.0
Toluene	0.034
K023, K093, and K094 nonwastewaters	Concentration (in mg/kg)
Phthalic anhydride (measured as Phthalic acid)	28.0
K023, K093, and K094 wastewaters	Concentration (in mg/l)
Phthalic anhydride (measured as Phthalic acid)	0.54
K024 nonwastewaters	Concentration (in mg/kg)
Phthalic anhydride (measured as Phthalic acid)	28.0
K024 wastewaters	Concentration (in mg/l)
Phthalic anhydride (measured as Phthalic acid)	0.54
K028 nonwastewaters (see also Table CCWE)	Concentration (in mg/kg) in s. NR 675.21)
1,1-Dichloroethane	6.0
trans-1,2-Dichloroethane	6.0
Hexachlorobutadiene	5.6
Hexachloroethane	28.0
Pentachloroethane	5.6
1,1,1,2-Tetrachloroethane	5.6

Table CCWE-Constituent Concentrations in Waste Extract

1,1,2,2-Tetrachloroethane	5.6
1,1,1-Trichloroethane	6.0
1,1,2-Trichloroethane	6.0
Tetrachloroethylene	6.0
K028 wastewaters	Concentration (in mg/l)
1,1-Dichloroethane	0.007
trans-1,2-Dichloroethane	0.033
Hexachlorobutadiene	0.007
Hexachloroethane	0.033
Pentachloroethane	0.033
1,1,1,2-Tetrachloroethane	0.007
1,1,2,2-Tetrachloroethane	0.007
Tetrachloroethylene	0.007
1,1,1-Trichloroethane	0.007
1,1,2-Trichloroethane	0.007
Cadmium	6.4
Chromium (Total)	0.35
Lead	0.037
Nickel	0.47
K029 nonwastewaters	Concentration (in mg/kg)
Chloroform	6.0
1,2-Dichloroethane	6.0
1,1-Dichloroethylene	6.0
1,1,1-Trichloroethane	6.0
Vinyl chloride	6.0
K030 nonwastewaters	Concentration (in mg/kg)
Hexachlorobutadiene	5.6
Hexachloroethane	28.0
Hexachloropropene	19.0
Pentachlorobenzene	28.0
Pentachloroethane	5.6
1,2,4,5-Tetrachlorobenzene	14.0
Tetrachloroethene	6.0
1,2,4-Trichlorobenzene	19.0
K030 wastewaters	Concentration (in mg/l)
o-Dichlorobenzene	0.008
p-Dichlorobenzene	0.008
Hexachlorobutadiene	0.007
Hexachloroethane	0.033
Pentachloroethane	0.007
1,2,4,5-Tetrachlorobenzene	0.017

Table CCWE-Constituent Concentrations in Waste Extract

Tetrachloroethene	0.007
1,2,4-Trichlorobenzene	0.023
K036 wastewaters	Concentration (in mg/l)
Disulfoton	0.025
K037 nonwastewaters	Concentration (in mg/kg)
Disulfoton	0.1
Toluene	28.0
K037 wastewaters	Concentration (in mg/l)
Disulfoton	0.003
Toluene	0.028
K038 and K040 nonwastewaters	Concentration (in mg/kg)
Phorate	0.1
K038 and K040 wastewaters	Concentration (in mg/l)
Phorate	0.025
K043 nonwastewaters	Concentration (in mg/kg)
2,4-Dichlorophenol	0.38
2,6-Dichlorophenol	0.34
2,4,5-Trichlorophenol	8.2
2,4,6-Trichlorophenol	7.6
Tetrachlorophenols (Total)	0.68
Pentachlorophenol	1.9
Tetrachloroethene	1.7
Hexachlorodibenzo-p-dioxins	0.001
Hexachlorodibenzo-furans	0.001
Pentachlorodibenzo-p-dioxins	0.001
Pentachlorodibenzo-furans	0.001
Tetrachlorodibenzo-p-dioxins	0.001
Tetrachlorodibenzo-furans	0.001
K043 wastewaters	Concentration (in mg/l)
2,4-Dichlorophenol	0.049
2,6-Dichlorophenol	0.013
2,4,5-Trichlorophenol	0.016
2,4,6-Trichlorophenol	0.039
Tetrachlorophenols (Total)	0.018
Pentachlorophenol	0.22
Tetrachloroethene	0.006
Hexachlorodibenzo-p-dioxins	0.001
Hexachlorodibenzo-furans	0.001
Pentachlorodibenzo-p-dioxins	0.001
Pentachlorodibenzo-furans	0.001
Tetrachlorodibenzo-p-dioxins	0.001

Table CCWE-Constituent Concentrations in Waste Extract

Tetrachlorodibenzo-furans	0.001	
K048 nonwastewaters (see also Table CCWE	Concentration (in mg/kg) in s. NR 675.21)	
Benzene	9.5	
Benzo(a)pyrene	0.84	
Bis(2-ethylhexyl)phthalate	37.0	
Chrysene	2.2	
Di-n-butyl phthalate	4.2	
Ethylbenzene	67.0	
Naphthalene		[Reserved]
Phenanthrene	7.7	
Phenol	2.7	
Pyrene	2.0	
Toluene	9.5	
Xylenes		[Reserved]
Cyanides (Total)	1.8	
K048 wastewaters	Concentration (in mg/l)	
Benzene	0.011	
Benzo(a)pyrene	0.047	
Bis(2-ethylhexyl)phthalate	0.043	
Chrysene	0.043	
Di-n-butyl phthalate	0.060	
Ethylbenzene	0.011	
Fluorene	0.050	
Naphthalene	0.033	
Phenanthrene	0.039	
Phenol	0.047	
Pyrene	0.045	
Toluene	0.011	
Xylenes	0.011	
Chromium (Total)	0.20	
Lead	0.37	
K049 nonwastewaters (see also Table CCWE	Concentration (in mg/kg) in s. NR 675.21)	
Anthracene	6.2	
Benzene	9.5	
Benzo(a)pyrene	0.84	
Bis(2-ethylhexyl)phthalate	37.0	
Chrysene	2.2	
Ethylbenzene	67.0	
Naphthalene		[Reserved]
Phenanthrene	7.7	

Table CCWE-Constituent Concentrations in Waste Extract

Phenol	2.7	
Pyrene	2.0	
Toluene	9.5	
Xylenes		[Reserved]
Cyanides (Total)	1.8	
K049 wastewaters		Concentration (in mg/l)
Anthracene	0.039	
Benzene	0.011	
Benzo(a)pyrene	0.047	
Bis(2-ethylhexyl)phthalate	0.043	
Carbon disulfide	0.011	
Chrysene	0.043	
2,4-Dimethylphenol	0.033	
Ethylbenzene	0.011	
Naphthalene	0.033	
Phenanthrene	0.039	
Phenol	0.047	
Pyrene	0.045	
Toluene	0.011	
Xylenes	0.011	
Chromium (Total)	0.20	
Lead	0.037	
K050 nonwastewaters (see also Table CCWE)		Concentration (in mg/kg) in s. NR 675.21)
Benzo(a)pyrene	0.84	
Phenol	2.7	
Cyanides (Total)	1.8	
K050 wastewaters		Concentration (in mg/l)
Benzo(a)pyrene	0.047	
Phenol	0.047	
Chromium (Total)	0.20	
Lead	0.037	
K051 nonwastewaters (see also Table CCWE)		Concentration (in mg/kg) in s. NR 675.21)
Anthracene	6.2	
Benzene	9.5	
Benzo(a)anthracene	1.4	
Benzo(a)pyrene	0.84	
Bis(2-ethylhexyl)phthalate	37.0	
Chrysene	2.2	
Di-n-butyl phthalate	4.2	
Ethylbenzene	67.0	

Table CCWE-Constituent Concentrations in Waste Extract

Naphthalene		[Reserved]
Phenanthrene	7.7	
Phenol	2.7	
Pyrene	2.0	
Toluene	9.5	
Xylenes		[Reserved]
Cyanides (Total)	1.8	
K051 wastewaters		Concentration (in mg/l)
Acenaphthene	0.050	
Anthracene	0.039	
Benzene	0.011	
Benzo(a)anthracene	0.043	
Benzo(a)pyrene	0.047	
Bis(2-ethylhexyl) phthalate	0.043	
Chrysene	0.043	
Di-n-butyl phthalate	0.060	
Ethylbenzene	0.011	
Fluorene	0.050	
Naphthalene	0.033	
Phenanthrene	0.039	
Phenol	0.047	
Pyrene	0.045	
Toluene	0.011	
Xylenes	0.011	
Chromium (Total)	0.20	
Lead	0.037	
K052 nonwastewaters (see also Table CCWE)		Concentration (in mg/kg) in s. NR 675.21)
Benzene	9.5	
Benzo(a)pyrene	0.84	
o-Cresol	2.2	
p-Cresol	0.90	
Ethylbenzene	67.0	
Naphthalene		[Reserved]
Phenanthrene	7.7	
Phenol	2.7	
Toluene	9.5	
Xylenes		[Reserved]
Cyanides (Total)	1.8	
K052 wastewaters		Concentration (in mg/l)
Benzene	0.011	

Table CCWE-Constituent Concentrations in Waste Extract

Benzo(a)pyrene	0.047
o-Cresol	0.011
p-Cresol	0.011
2,4-Dimethylphenol	0.033
Ethylbenzene	0.011
Naphthalene	0.033
Phenanthrene	0.039
Phenol	0.047
Toluene	0.011
Xylenes	0.011
Chromium (Total)	0.20
Lead	0.037
K062 wastewaters	Concentration (in mg/l)
Chromium (Total)	0.32
Lead	0.04
Nickel	0.44
K071 wastewaters	Concentration (in mg/l)
Mercury	0.030
K086 nonwastewaters-Solvent Washes	Concentration (in mg/kg)
Subcategory (see also Table CCWE in s. NR 675.21)	
Acetone	0.37
bis(2-ethylhexyl) phthalate	0.49
n-Butyl alcohol	0.37
Cyclohexanone	0.49
1,2-Dichlorobenzene	0.49
Ethyl acetate	0.37
Ethyl benzene	0.031
Methanol	0.37
Methylene chloride	0.037
Methyl ethyl ketone	0.37
Methyl isobutyl ketone	0.37
Naphthalene	0.49
Nitrobenzene	0.49
Toluene	0.031
1,1,1,-Trichloroethane	0.044
Trichloroethylene	0.031
Xylenes	0.015
K086 wastewaters-Solvent Washes Subcat- egory	Concentration (in mg/l)
Acetone	0.015
bis(2-ethylhexyl)phthalate	0.044

Table CCWE-Constituent Concentrations in Waste Extract

n-Butyl alcohol	0.031
Cyclohexanone	0.022
1,2-Dichlorobenzene	0.044
Ethyl acetate	0.031
Ethyl benzene	0.015
Methanol	0.031
Methylene chloride	0.031
Methyl ethyl ketone	0.031
Methyl isobutyl ketone	0.031
Naphthalene	0.044
Nitrobenzene	0.044
Toluene	0.029
1,1,1,-Trichloroethane	0.031
Trichloroethylene	0.029
Xylenes	0.015
Chromium (Total)	0.32
Lead	0.037
K087 nonwastewaters (see also Table CCWE)	Concentration (in mg/kg) in s. NR 675.21)
Acenaphthalene	3.4
Benzene	0.071
Chrysene	3.4
Fluoranthene	3.4
Indeno (1,2,3-cd) pyrene	3.4
Naphthalene	3.4
Phenanthrene	3.4
Toluene	0.65
Xylenes	0.070
K087 wastewaters	Concentration (in mg/l)
Acenaphthalene	0.028
Benzene	0.014
Chrysene	0.028
Fluoranthene	0.028
Indeno (1,2,3-cd) pyrene	0.028
Naphthalene	0.028
Phenanthrene	0.028
Toluene	0.008
Xylenes	0.014
Lead	0.037
K095 nonwastewaters	Concentration (in mg/kg)
1,1,1,2-Tetrachloroethane	5.6

Table CCWE-Constituent Concentrations in Waste Extract

1,1,2,2-Tetrachloroethane	5.6
Tetrachloroethene	6.0
1,1,2-Trichloroethane	6.0
Trichloroethylene	5.6
Hexachloroethane	28.0
Pentachloroethane	5.6
K096 nonwastewaters	concentration (in mg/kg)
1,3-Dichlorobenzene	5.6
Pentachloroethane	5.6
1,1,1,2-Tetrachloroethane	5.6
1,1,2,2-Tetrachloroethane	5.6
Tetrachloroethylene	6.0
1,2,4-Trichlorobenzene	19.0
Trichloroethylene	5.6
1,1,2-Trichloroethane	6.0
K099 nonwastewaters	Concentration (in mg/kg)
2,4-Dichlorophenoxyacetic acid	1.0
Hexachlorodibenzo-p-dioxins	0.001
Hexachlorodibenzofurans	0.001
Pentachlorodibenzo-p-dioxins	0.001
Pentachlorodibenzofurans	0.001
Tetrachlorodibenzo-p-dioxins	0.001
Tetrachlorodibenzofurans	0.001
K099 wastewaters	Concentration (in mg/l)
2,4-Dichlorophenoxyacetic acid	1.0
Hexachlorodibenzo-p-dioxins	0.001
Hexachlorodibenzofurans	0.001
Pentachlorodibenzo-p-dioxins	0.001
Pentachlorodibenzofurans	0.001
Tetrachlorodibenzo-p-dioxins	0.001
Tetrachlorodibenzofurans	0.001
K101 nonwastewaters (Low Arsenic Subcategory - than 1% total arsenic) (see also Table CCWE in s. NR 675.21)	less Concentration (in mg/kg)
Ortho-Nitroaniline	14.0
K101 wastewaters	Concentration (in mg/l)
Ortho-Nitroaniline	0.27
Arsenic	2.0
Cadmium	0.24
Lead	0.11
Mercury	0.027

Table CCWE-Constituent Concentrations in Waste Extract

K102 nonwastewaters (Low Arsenic Subcategory)	Concentration (in mg/kg) less than 1% total arsenic) (see also Table CCWE in s. NR 675.21)
Ortho Nitrophenol	13.0
K102 wastewaters	Concentration (in mg/l)
Ortho-Nitrophenol	0.028
Arsenic	2.0
Cadmium	0.24
Lead	0.11
Mercury	0.027
K103 nonwastewaters	Concentration (in mg/kg)
Aniline	5.6
Benzene	6.0
2,4-Dinitrophenol	5.6
Nitrobenzene	5.6
Phenol	5.6
K103 wastewaters	Concentration (in mg/l)
Aniline	4.5
Benzene	0.15
2,4-Dinitrophenol	0.61
Nitrobenzene	0.073
Phenol	1.4
K104 nonwastewaters	Concentration (in mg/kg)
Aniline	5.6
Benzene	6.0
2,4-Dinitrophenol	5.6
Nitrobenzene	5.6
Phenol	5.6
Cyanides (Total)	1.8
K104 wastewaters	Concentration (in mg/l)
Aniline	4.5
Benzene	0.15
2,4-Dinitrophenol	0.61
Nitrobenzene	0.073
Phenol	1.4
Cyanides (Total)	2.7
K115 wastewaters (see also Table CCWE)	Concentration (in mg/l) in s. NR 675.21)
Nickel	0.47
P013 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1

Table CCWE-Constituent Concentrations in Waste Extract

P013 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P021 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P021 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P029 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P029 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P030 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P030 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P039 nonwastewaters	Concentration (in mg/kg)
Disulfoton	0.1
P039 wastewaters	Concentration (in mg/l)
Disulfoton	0.025
P063 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P063 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P071 nonwastewaters	Concentration (in mg/kg)
Methyl parathion	0.1
P071 wastewaters	Concentration (in mg/l)
Methyl parathion	0.025
P074 nonwastewaters (see also Table CCWE)	Concentration (in mg/kg) in s. NR 675.21)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P074 wastewaters (see also Table CCWE)	Concentration (in mg/l) in s. NR 675.21)
Cyanides (Total)	1.9

Table CCWE-Constituent Concentrations in Waste Extract

Cyanides (Amenable)	0.10
Nickel	0.44
P089 nonwastewaters	Concentration (in mg/kg)
Parathion	0.1
P089 wastewaters	Concentration (in mg/l)
Parathion	0.025
P094 nonwastewaters	Concentration (in mg/kg)
Phorate	0.1
P094 wastewaters	Concentration (in mg/l)
Phorate	0.025
P097 nonwastewaters	Concentration (in mg/kg)
Famphur	0.1
P097 wastewaters	Concentration (in mg/l)
Famphur	0.025
P098 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P098 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P099 nonwastewaters (see also Table CCWE)	Concentration (in mg/kg) in s. NR 675.21)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P099 wastewaters (see also Table CCWE)	Concentration (in mg/l) in s. NR 675.21)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P104 nonwastewaters (see also Table CCWE)	Concentration (in mg/kg) in s. NR 675.21)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P104 wastewaters (see also Table CCWE)	Concentration (in mg/l) in s. NR 675.21)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P106 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P106 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
P121 nonwastewaters	Concentration (in mg/kg)

Table CCWE-Constituent Concentrations in Waste Extract

Cyanides (Total)	110.0
Cyanides (Amenable)	9.1
P121 wastewaters	Concentration (in mg/l)
Cyanides (Total)	1.9
Cyanides (Amenable)	0.10
U028 nonwastewaters	Concentration (in mg/kg)
Bis-(2-ethylhexyl) phthalate	28.0
U028 wastewaters	Concentration (in mg/l)
Bis-(2-ethylhexyl) phthalate	0.54
U069 nonwastewaters	Concentration (in mg/kg)
Di-n-butyl phthalate	28.0
U069 wastewaters	Concentration (in mg/l)
Di-n-butyl phthalate	0.54
U088 nonwastewaters	Concentration (in mg/kg)
Diethyl phthalate	28.0
U088 wastewaters	Concentration (in mg/l)
Diethyl phthalate	0.54
U102 nonwastewaters	Concentration (in mg/kg)
Dimethyl phthalate	28.0
U102 wastewaters	Concentration (in mg/l)
Dimethyl phthalate	0.54
U107 nonwastewaters	Concentration (in mg/kg)
Di-n-octyl phthalate	28.0
U107 wastewaters	Concentration (in mg/l)
Di-n-octyl phthalate	0.54
U190 nonwastewaters	Concentration (in mg/kg)
Phthalic anhydride (measured as Phthalic acid)	28.0
U190 wastewaters	Concentration (in mg/l)
Phthalic anhydride (measured as Phthalic acid)	0.54
U235 nonwastewaters	Concentration (in mg/kg)
tris-(2,3-Dibromopropyl) phosphate	0.1
U235 wastewaters	Concentration (in mg/l)
tris-(2,3-Dibromopropyl) phosphate	0.025

No Land Disposal for:

K005 Nonwastewaters generated by the process described in the waste listing description, and disposed after June 8, 1989, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

K007 Nonwastewaters generated by the process described in the waste listing description, and disposed after June 8, 1989, and not generated in

the course of treating wastewater forms of these wastes. (Based on No Generation)

K021 Nonwastewater forms of these wastes generated by the proces described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (based on No Generation).

K025 Nonwastewater forms of these wastes generated by the proces described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (based on No Generation).

K036 Nonwastewater forms of these wastes generated by the proces described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (based on No Generation).

K044 (Based on Reactivity)

K045 (Based on Reactivity)

K047 (Based on Reactivity)

K060 Nonwastewater forms of these wastes generated by the proces described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (based on No Generation).

K061 Nonwastewaters-High Zinc Subcategory (greater than or equal to 15% total zinc) (Based on Recycling): effective 8/8/90

K069 Nonwastewaters-Non-Calcium Sulfate Subcategory Nonwastewater forms of these wastes generated by the proces described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (based on No Generation).

K100 Nonwastewater forms of these wastes generated by the proces described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (based on Recycling).

(2) When wastes with differing treatment standards for a constituent of concern are combined for purposes of treatment, the treatment residue shall meet the lowest treatment standard for the constituent of concern.

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

NR 675.24 Variance from a treatment standard. (1) (a) Where the treatment standard is expressed as a concentration in a waste or waste extract and a waste cannot be treated to the specified level, or where the treatment technology is not appropriate to the waste, the generator or treatment facility may petition EPA for a variance from the treatment standard under 40 CFR 268.44 as of July 1, 1989. The petitioner shall demonstrate that because the physical or chemical properties of the waste differ significantly from wastes analyzed in developing the treatment standard, the waste cannot be treated to specified levels or by the specified methods.

Register, February, 1991, No. 422

(b) If EPA denies the petition for a variance under 40 CFR 268.44 as of July 1, 1989, the department shall recognize that denial.

(c) Generators or owners or operators of treatment facilities who have had their petitions for a variance approved by EPA under 40 CFR 268.44 as of July 1, 1989, shall continue to treat their wastes in compliance with ss. NR 675.20 to 675.23 unless and until the department recognizes EPA's variance. Generators or owners or operators of treatment facilities may petition the department to recognize an EPA variance by submitting the following to the department:

1. Copies of all materials and information submitted to EPA concerning the variance under 40 CFR 268.44 as of July 1, 1989;

2. Copies of all material and information received from EPA, including the EPA notice of approval, concerning the variance under 40 CFR 268.44 as of July 1, 1989; and

3. All other information that the department determines is necessary to evaluate the request for a variance.

(d) When determining whether to recognize an EPA granted variance under 40 CFR 268.44 as of July 1, 1989, 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 268.44 as of July 1, 1989.

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

Note: The publication containing these regulations may be obtained from:

The Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

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

(2) During the petition review process, the applicant shall comply with all restrictions on land disposal under this chapter.

(3) Approval by EPA and the department of a variance from a treatment standard under sub. (1) shall allow a facility to land dispose of prohibited waste under this chapter.

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

NR 675.30 Prohibition on storage. (1) Except as provided for in this section, the storage of hazardous wastes restricted from land disposal under this chapter or 42 USC 6924 is prohibited, unless the following conditions are met:

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

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

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(a) A generator stores the wastes in tanks or containers on-site solely for the purpose of the accumulation of the quantities of hazardous waste as necessary to facilitate proper recovery, treatment or disposal and the generator complies with the requirements in chs. NR 610 and 615. A generator existing on the effective date of a regulation under this chapter and storing hazardous wastes for longer than 90 days due to the regulations under this chapter becomes an owner or operator of a storage facility and shall obtain a hazardous waste operating license. A facility may qualify for an interim license upon compliance with the regulations governing interim license issuance under ch. NR 680.

(b) An owner or operator of a hazardous waste treatment, storage or disposal facility stores the wastes in tanks or containers solely for the purpose of the accumulation of the quantities of hazardous waste as necessary to facilitate proper recovery, treatment or disposal and:

1. Each container is clearly marked to identify its contents and the date each period of accumulation begins;

2. Each tank is clearly marked with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or the information for each tank is recorded and maintained in the operating record at that facility. Regardless of whether the tank itself is marked, an owner or operator shall comply with the operating record requirements specified in ch. NR 630.

(c) A transporter stores manifested shipments of the wastes at a transfer facility for 10 days or less.

(2) An owner or operator of a treatment, storage or disposal facility may store the wastes for up to one year unless the department demonstrates that the storage was not solely for the purpose of accumulation of the quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.

(3) An owner or operator of a treatment, storage or disposal facility may store the wastes beyond one year; however, the owner or operator bears the burden of proving that the storage was solely for the purpose of accumulation of the quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.

(4) If a generator's waste is exempt from a prohibition against the type of land disposal utilized for the waste, the prohibition in sub. (1) does not apply during the period of the exemption.

Note: Examples of exemptions from the prohibition against the type of land disposal include a case-by-case extension granted under s. NR 675.05 (1), an approved petition granted under 40 CFR 268.6 as of July 1, 1988 or a national capacity variance granted under 40 CFR 268 Subpart C.

(5) The prohibition in sub. (1) does not apply to hazardous wastes that meet the treatment standards specified under ss. NR 675.21 to 675.23, or the treatment standards specified under the variance in s. NR 675.24, or where treatment standards have not been specified is in compliance with the applicable prohibitions in ss. NR 675.10 to 675.14, or 42 USC 6924(d).

Note: The publication containing title 42 of the united states code may be obtained from:

The Superintendent of Documents
U.S. Government Printing Office

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Washington, D.C. 20402

(6) Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm shall be stored at a facility that meets the requirements of ch. NR 157 and shall be removed from storage and treated or disposed as required by this chapter within one year of the date when the wastes are first placed into storage. The provisions of sub. (3) do not apply to the PCB wastes prohibited under s. NR 675.12.

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