Ontario Regulation 558/00

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This amendment to Regulation 347 (Waste Management) applies exclusively to hazardous and liquid industrial waste. It takes the "mixing rule" one step further so as to specify that a material that is "derived from" a waste in certain particular categories of hazardous or liquid industrial waste, is considered to remain a waste in that same category. This "derived from rule" does not apply if the resultant material has been formally delisted (Schedule 1.1, 2.1 or 2.2) or has been produced in accordance with a certificate of approval which specifies a different categorization of the produced material.

In addition, the amendment updates the schedules of hazardous wastes (Schedule 1, Schedule 2, Part A and Part B and Schedule 4) and also revokes the current out-dated leaching test and replaces it with the Toxicity Characteristic Leaching Procedure (TCLP test).

Note: This amendment takes effect March 31, 2001 with the exception of section 3, which takes effect immediately. Section 3 corrects a clerical error in s. 23(2) of Regulation 347.

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Ontario Regulation 558/00

REGULATION TO AMEND
REGULATION 347 OF THE REVISED REGULATIONS OF ONTARIO, 1990
MADE UNDER THE
ENVIRONMENTAL PROTECTION ACT

Note: Since the end of 1998, Regulation 347 has been amended by Ontario Regulation 460/99. Previous amendments are listed in the Table of Regulations in the Statutes of Ontario, 1998.

1. (1) The definition of "acute hazardous waste chemical" in section 1 of Regulation 347 of the Revised Regulations of Ontario, 1990 is amended by striking out "or" at the end of clause (a), by adding "or" at the end of clause (b) and by adding the following clause:

(c) a waste derived from a waste referred to in clause (a), unless,

(i) the waste that is derived from the waste referred to in clause (a) is listed in Schedule 2.1, or

(ii) the waste that is derived from the waste referred to in clause (a) is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste that is produced in accordance with the certificate of approval does not have characteristics similar to the characteristics of the acute hazardous waste chemical from which it was derived;

(2) The definition of "Director" in section 1 of the Regulation is revoked and the following substituted:

"Director" means the Director of the Waste Management Policy Branch of the Ministry and includes an alternate named by him or her;

(3) Section 1 of the Regulation is amended by adding the following definition:

"electroplating" includes common and precious metal electroplating, anodizing, chemical etching and milling, and includes cleaning and stripping associated with common and

precious metal electroplating, anodizing, chemical etching and milling, but does not include chromating, phosphating, immersion plating, colouring or other chemical conversion coating, electroless plating or printed circuit board manufacturing;

(4) The definition of "hazardous industrial waste" in section 1 of the Regulation is amended by striking out "or" at the end of clause (a), by adding "or" at the end of clause (b) and by adding the following clause:

(c) a waste derived from a waste referred to in clause (a), unless,

(i) the waste that is derived from the waste referred to in clause (a) is listed in Schedule 1.1, or

(ii) the waste that is derived from the waste referred to in clause (a) is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste that is produced in accordance with the certificate of approval does not have characteristics similar to the characteristics of the hazardous industrial waste from which it was derived;

(5) The definition of "hazardous waste chemical" in section 1 of the Regulation is amended by striking out "or" at the end of clause (a), by adding "or" at the end of clause (b) and by adding the following clause:

(c) a waste derived from a waste referred to in clause (a), unless,

(i) the waste that is derived from the waste referred to in clause (a) is listed in Schedule 2.2, or

(ii) the waste that is derived from the waste referred to in clause (a) is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste that is produced in accordance with the certificate of approval does not have characteristics similar to the characteristics of the hazardous waste chemical from which it was derived;

(6) The definition of "leachate toxic waste" in section 1 of the Regulation is revoked and the following substituted:

"leachate toxic waste" means a waste producing leachate containing any of the contaminants listed in Schedule 4 at a concentration equal to or in excess of the concentration specified for that contaminant in Schedule 4 using the Toxicity Characteristic Leaching Procedure, Method 1311 that appears in the United States

Environmental Protection Agency Publication SW-846 entitled "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", as amended from time to time, or an equivalent test method approved by the Director;

(7) The definition of "metal finishing" in section 1 of the Regulation is revoked.

(8) The definition of "pathological waste" in section 1 of the Regulation is amended by striking out "or" at the end of clause (c), by adding "or" at the end of clause (d) and by adding the following clause:

(e) a waste derived from a waste referred to in clause (a), (b) or (c), unless the waste that is derived from the waste referred to in clause (a), (b) or (c) is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste that is produced in accordance with the certificate of approval does not have characteristics similar to the characteristics of pathological waste referred to in clause (a), (b) or (c);

(9) The definition of "radioactive waste" in section 1 of the Regulation is revoked and the following substituted:

"radioactive waste" includes,

(a) a mixture of radioactive waste and any other waste or material, and

(b) a waste derived from radioactive waste, unless the waste that is derived from the radioactive waste is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste that is produced in accordance with the certificate of approval does not have characteristics similar to the characteristics of radioactive waste;

(10) Section 1 of the Regulation is amended by adding the following definition:

"Section 39 Director" means a Director appointed under section 5 of the Act for purposes of section 39 of the Act;

(11) The definition of "severely toxic waste" in section 1 of the Regulation is amended by striking out "or" at the end of clause (a), by adding "or" at the end of clause (b) and by adding the following clause:

(c) a waste derived from a waste referred to in clause (a), unless the waste that is derived from the waste referred to in clause (a) is produced in accordance with a certificate of approval that states that, in the opinion of the Section 39 Director, the waste that is produced in accordance with the certificate of

approval does not have characteristics similar to the characteristics of severely toxic waste referred to in clause (a);

(12) Section 1 of the Regulation is amended by adding the following subsection:

(2) For the purpose of this Regulation, a waste is derived from a hazardous waste if it is produced from the hazardous waste by blending, stabilization, processing, treatment or disposal.

2. Subsection 18 (15) of the Regulation is revoked and the following substituted:

(15)For purposes of this section,

”liquid waste” means waste that has a slump of more than 150 millimetres using the Test Method for the Determination of Liquid Waste (slump test) set out in Schedule 5.

3. Subsection 23 (2) of the Regulation is revoked and the following substituted:

(2) Where subject waste is transferred to a waste transportation system by a generator,

(a) for each truckload or part thereof transferred, the carrier shall complete section B (Carrier) of an intact manifest and give the manifest, at the time of the transfer, to the generator; and

(b) for each truckload or part thereof transferred, the generator shall obtain from the carrier the intact manifest, with section B completed, and shall,

(i) at the time of the transfer, complete section A (Generator) in accordance with the Manual,

(ii) remove Copy 1 (White) and return it to the Director within three working days after the transfer,

(iii) remove Copy 2 (Green) and retain it for a period of two years, and

(iv) return the remaining four copies of the manifest to the carrier at the time of the transfer.

4. Schedules 1, 1.1 and 2 to the Regulation are revoked and the following substituted:

Schedule 1

HAZARDOUS INDUSTRIAL WASTES

Hazardous Industrial Waste from Non-Specific Sources

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
F001	NA9301	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002	NA9302	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloro-ethane; all spent solvent mixtures/blends containing, before use, a total of ten per cent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F003	NA9303	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F004	NA9304	The following spent non-halogenated solvents: Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F005	NA9305	The following spent non-halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F006	NA9306	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	NA9308	Spent cyanide plating bath solutions from electroplating operations
F008	NA9309	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.
F009	NA9310	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.
F010	NA9311	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.
F011	NA9312	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.
F012	NA9313	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process.
F019	NA9307	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.
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.).
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.
F022		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.
F023		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).
F024		Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor cleanout wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in Schedules 2A or 2B.).
F025		Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.

F026		Wastes (except wastewater and spent carbon rom hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.
F027		Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.).
F028		Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026 and F027.
F032		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with § 261.35[1] or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
F034		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
F035		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
F037		Petroleum refinery primary oil/water/solids separation sludge—Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in § 261.31(b)(2)[1] (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under § 261.4(a)(12)(i)[1], if those residuals are to be disposed of.

F038		Petroleum refinery secondary (emulsified) oil/water/solids separation sludge—Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in § 261.31(b)(2)[1] (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.
F039		Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of this part. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other Hazardous Wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.).

Hazardous Industrial Waste from Specific Sources

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
Wood preservation:		
K001	NA9316	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.
Inorganic pigments:		
K002	NA9317	Wastewater treatment sludge from the production of chrome yellow and orange pigments.
K003	NA9318	Wastewater treatment sludge from the production of molybdate orange pigments.
K004	NA9319	Wastewater treatment sludge from the production of zinc yellow pigments.
K005	NA9320	Wastewater treatment sludge from the production of chrome green pigments.
K006	NA9321	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
K007	NA9322	Wastewater treatment sludge from the production of iron blue pigments.
K008	NA9323	Oven residue from the production of chrome oxide green pigments.
Organic chemicals:		

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K009	NA9324	Distillation bottoms from the production of acetaldehyde from ethylene.
K010	NA9325	Distillation side cuts from the production of acetaldehyde from ethylene.
K011	NA9326	Bottom stream from the wastewater stripper in the production of acrylonitrile.
K013	NA9327	Bottom stream from the acetonitrile column in the production of acrylonitrile.
K014	NA9328	Bottoms from the acetonitrile purification column in the production of acrylonitrile.
K015	NA9329	Still bottoms from the distillation of benzyl chloride.
K016	NA9330	Heavy ends or distillation residues from the production of carbon tetrachloride.
K017	NA9331	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
K018	NA9332	Heavy ends from the fractionation column in ethyl chloride production.
K019	NA9333	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.
K020	NA9334	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
K021	NA9335	Aqueous spent antimony catalyst waste from fluoromethanes production.
K022	NA9336	Distillation bottom tars from the production of phenol/acetone from cumene.
K023	NA9337	Distillation light ends from the production of phthalic anhydride from naphthalene.
K024	NA9338	Distillation bottoms from the production of phthalic anhydride from naphthalene.
K025	NA9341	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
K026	NA9342	Stripping still tails from the production of methyl ethyl pyridines.
K027	NA9343	Centrifuge and distillation residues from toluene diisocyanate production.
K028	NA9344	Spent catalyst from the hydrochlorinator reactor in the productions of 1,1,1trichloroethane.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K029	NA9345	Waste from the product stream stripper in the production of 1,1,1trichloroethane.
K030	NA9348	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.
K083	NA9349	Distillation bottoms from aniline production.
K085	NA9352	Distillation or fractionation column bottoms from the production of chlorobenzenes.
K093	NA9339	Distillation light ends from the production of phthalic anhydride from orthoxylene.
K094	NA9340	Distillation bottoms from the production of phthalic anhydride from orthoxylene.
K095	NA9346	Distillation bottoms from the production of 1,1,1trichloroethane.
K096	NA9347	Heavy ends from the heavy ends column from the production of 1,1,1trichloroethane.
K103	NA9350	Process residues from aniline extraction from the production of aniline.
K104	NA9351	Combined wastewater streams generated from nitrobenzene/aniline production.
K105	NA9353	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.
K107		Column bottoms from product separation from the production of 1,1-dimethyl-hydra-zine (UDMH) from carboxylic acid hydrazines.
K108		Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.
K109		Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.
K110		Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.
K111		Product washwaters from the production of dinitrotoluene via nitration of toluene
K112		Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K113		Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K114		Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K115		Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K116		Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.
K117		Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.
K118		Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K136		Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K140		Floor sweepings, off-specification product and spent filter media from the production of 2,4,6-tribromophenol.
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 benzyl chloride.)
K150		Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha-(or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
K151		Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
K156		Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2- propynyl n-butylcarbamate.).
K157		Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K158		Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.).
K159		Organics from the treatment of thiocarbamate wastes
K161		Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126.)
Inorganic chemicals:		
K071	NA9390	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.
K073	NA9391	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.
K106	NA9392	Wastewater treatment sludge from the mercury cell process in chlorine production.
Pesticides:		
K031	NA9354	Byproduct salts generated in the production of MSMA and cacodylic acid.
K032	NA9355	Wastewater treatment sludge from the production of chlordane.
K033	NA9356	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.
K034	NA9357	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.
K035	NA9359	Wastewater treatment sludges generated in the production of creosote.
K036	NA9360	Still bottoms from toluene reclamation distillation in the production of disulphoton.
K037	NA9361	Wastewater treatment sludges from the production of disulphoton.
K038	NA9362	Wastewater from the washing and stripping of phorate production.
K039	NA9363	Filter cake from the filtration of diethyl phosphorodithioic acid in the production of phorate.
K040	NA9364	Wastewater treatment sludge from the production of phorate.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K041	NA9365	Wastewater treatment sludge from the production of toxaphene.
K042	NA9367	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5T.
K043	NA9368	2, 6Dichlorophenol waste from the production of 2,4D.
K097	NA9358	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.
K098	NA9366	Untreated process wastewater from the production of toxaphene.
K099	NA9369	Untreated wastewater from the production of 2, 4D.
K123		Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salt.
K124		Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.
K125		Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.
K126		Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.
K131		Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.
K132		Spent absorbent and wastewater separator solids from the production of methyl bromide.
Explosives:		
K044	NA9370	Wastewater treatment sludges from the manufacturing and processing of explosives.
K045	NA9371	Spent carbon from the treatment of wastewater containing explosives.
K046	NA9372	Wastewater treatment sludges from the manufacturing formulation and loading of leadbased initiating compounds.
K047	NA9373	Pink/red water from TNT operations.
Petroleum refining:		
K048	NA9374	Dissolved air flotation (DAF) float from the petroleum refining industry.

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K049	NA9375	Slop oil emulsion solids from the petroleum refining industry.
K050	NA9376	Heat exchanger bundle cleaning sludge from the petroleum refining industry.
K051	NA9377	API separator sludge from the petroleum refining industry.
K052	NA9378	Tank bottoms (leaded) from the petroleum refining industry.
K169		Crude oil storage tank sediment from petroleum refining operations.
K170		Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.
K171		Spent Hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).
K172		Spent Hydrorefining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).
Iron and steel:		
K061	NA9380	Emission control dust/sludge from the primary production of steel in electric furnaces.
K062	NA9381	Spent pickle liquor generated by steel finishing operations within the iron and steel industry at steel works, blast furnaces (including coke ovens), rolling mills, iron and steel foundries, gray and ductile iron foundries, malleable iron foundries, steel investment foundries or other miscellaneous steel foundries or at facilities in the electrometallurgical products (except steel) industry, steel wiredrawing and steel nails and spikes industry, coldrolled steel sheet, strip and bars industry, or steel pipe and tubes industry.
Primary copper:		
K064	NA9383	Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.
Primary lead:		
K065	NA9384	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.
Primary zinc:		
K066	NA9385	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.
Primary aluminum:		

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K088		Spent potliners from primary aluminum reduction
Ferroalloys:		
K090		Emission control dust or sludge from ferrochromiumsilicon production
K091		Emission control dust or sludge from ferrochromium production
Secondary lead:		
K069	NA9388	Emission control dust/sludge from secondary lead smelting. (NOTE: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action effecting this stay, EPA will publish a notice of the action in the Federal Register.
K100	NA9389	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.
Veterinary pharmaceuticals:		
K084	NA9394	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
K101	NA9395	Distillation tar residues from the distillation of anilinebased compounds in the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
K102	NA9396	Residue from the use of activated carbon for decolourization in the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
Ink formulation:		
K086	NA9393	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.
Coking:		
K060	NA9379	Ammonia still lime sludge from coking operations.
K087	NA9397	Decanter tank tar sludge from coking operations.
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 sludges from coking operations).

USEPA HAZARDOUS WASTE NO.	INDUSTRY AND NO.	WASTE
K142		Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.
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.
K144		Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.
K145		Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.
K147		Tar storage tank residues from coal tar refining.
K148		Residues from coal tar distillation, including but not limited to, still bottoms

[1] Resource Conservation and Recovery Act (RCRA), United States Congress, 42 U.S.C. s/s 6901 et seq. (1976)
Subtitle C
Code of Federal Regulations, 40CFR, Chapter I – Environmental Protection Agency, Subchapter I – Solid Wastes, Part 261 – Identification and Listing of Hazardous Waste

Schedule 1.1

EXEMPT HAZARDOUS INDUSTRIAL WASTES

INDUSTRY AND SITE	WASTE
ICI Canada Inc, Cornwall	Brine purification muds (known either as K071 or NO. NA9390, saturator and clarifier sludges only, without mixing with other wastes or materials) generated from mercury cells at the chloralkali chlorine plant.
Iron and steel industry, any site	Sludge generated by lime stabilization of spent pickle liquor (known either as K062 or NO. NA9381) generated by steel finishing operations within the iron and steel industry at steel works, blast furnaces (including coke ovens), rolling mills, iron and steel foundries, gray and ductile iron foundries, malleable iron foundries, steel investment foundries or other miscellaneous steel foundries or at facilities in the electrometallurgical products (except steel) industry, steel wiredrawing and steel nails and spikes industry, coldrolled steel sheet, strip and bars industry, or steel pipe and tubes industry.
Iron and steel industry, any site	Nonwastewater residues, such as slag, resulting from high temperature metals recovery (HTMR) processing of K061 (known also as NO. NA9380) or K062 (known also as NO. NA9381) 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.
Electroplating industry, any site	Nonwastewater residues, such as slag, resulting from high temperature metals recovery (HTMR) processing of F006 (known also as NO. NA9306) 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.
Organic chemical industry, and site	Biological treatment sludge from the treatment of organic waste (K156) and wastewaters (K157) from the production of carbamates and carbamoyl oximes.
Petroleum refining industry, any site	Catalyst inert support media separated from spent hydrotreating catalyst (K171) or spent hydrorefining catalyst (K172).

Schedule 2

Part A - Acute Hazardous Waste Chemicals

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P026	5344821	1(oChlorophenyl)thiourea	ON1037
P081	55630	1,2,3Propanetriol, trinitrate	ON1089
P042	51434	1,2Benzenediol,4[1hydroxy2(methylamino)ethyl]	ON1025
P067	75558	1,2Propylenimine	ON1082
P185	26419738	1,3Dithiolane2carboxaldehyde, 2,4–dimethyl, O [(methylamino)carbonyl]oxime	
P004	309002	1,4,5,8Dimethanonaphthalene,1,2,3,4,10,10hexachloro1,4,4a,5,8, 8a,hexahydro,(1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)	ON1010
P060	465736	1,4,5,8Dimethanonaphthalene,1,2,3,4,10,10hexachloro1,4,4a,5,8, 8ahexahydro,(1alpha,4alpha,4abeta,5beta,8beta,8abeta)-	ON1070
P002	591082	1Acetyl2thiourea	ON1002
P048	51285	2,4Dinitrophenol	ON1055
P051	**72208	2,7:3,6Dimethanonaphth [2,3b]oxirene, 3,4,5,6,9,9hexachloro1a,2,2a,3,6,6a,7,7aoctahydro,(1aalpha,2beta,2abeta,3alpha,6alpha,6 abeta,7beta, 7aalpha), & metabolites	ON1062
P037	60571	2,7:3,6Dimethanonaphth[2,3b]oxirene,3,4,5,6,9,9hexachloro1a,2,2a,3,6,6a,7,7aoctahydro,(1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta, 7aalpha)[b]oxirene, 3,4,5,6,9,9hexachloro	ON1043
P045	39196184	2Butanone,3,3dimethyl1methylthio),O[methylamino)carbonyl] oxime	ON1049
P034	131895	2Cyclohexyl4,6dinitrophenol	ON1054
P001	**81812	2H1Benzopyran2one, 4hydroxy3(3oxo1phenylbutyl), & salts, when present at concentrations greater than 0.3%	ON1006
P069	75865	2Methyllactonitrile	ON1005
P017	598312	2Propanone, 1bromo	ON1029
P005	107186	2Propen1ol	ON1011
P003	107028	2Propenal	ON1007
P102	107197	2Propyn1ol	ON1097

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P007	2763964	3(2H)Isoxazolone, 5(aminomethyl)	ON1008
P027	542767	3Chloropropionitrile	ON1038
P202	64006	3Isopropylphenyl Nmethylcarbamate	
P047	**534521	4,6Dinitroocresol, & salts	ON1053
P059	76448	4,7Methano1Hindene, 1,4,5,6,7,8,8 heptachloro3a,4,7,7atetrahydro	ON1069
P008	504245	4Aminopyridine	ON1013
P008	504245	4Pyridinamine	ON1013
P007	2763964	5(Aminomethyl)3isoxazolol	ON1008
P050	115297	6,9Methano2,4,3benzodioxathiepin,6,7,8,9,10,10hexachloro1,5,5 a,6,9,9ahexahydro,3oxide	ON1060
P127	1563662	7Benzofuranol, 2,3dihydro2,2dimethyl, methylcarbamate	
P088	145733	7Oxabicyclo[2.2.1]heptane2,3dicarboxylic acid	ON1061
P023	107200	Acetaldehyde, chloro	ON1001
P057	640197	Acetamide, 2fluoro	ON1003
P002	591082	Acetamide, N(aminothioxomethyl)	ON1002
P058	62748	Acetic acid, fluoro, sodium salt	ON1067
P003	107028	Acrolein	ON1007
P070	116063	Aldicarb	ON1009
P203	1646884	Aldicarb sulfone	
P004	309002	Aldrin	ON1010
P005	107186	Allyl alcohol	ON1011
P046	122098	alpha,alphaDimethylphenethylamine	ON1052
P072	86884	alphaNaphthylthiourea	ON1083
P006	20859738	Aluminum phosphide	ON1012

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P009	131748	Ammonium picrate	ON1015
P119	7803556	Ammonium vanadate	ON1014
P099	506616	Argentate(1), bis(cyanoC), potassium	ON1096
P010	7778394	Arsenic acid H_3AsO_4	ON1016
P012	1327533	Arsenic oxide As_2O_3	ON1017
P011	1303282	Arsenic oxide As_2O_5	ON1018
P011	1303282	Arsenic pentoxide	ON1018
P012	1327533	Arsenic trioxide	ON1017
P038	692422	Arsine, diethyl	ON1019
P036	696286	Arsonous dichloride, phenyl	ON1042
P054	151564	Aziridine	ON1020
P067	75558	Aziridine, 2methyl	ON1082
P013	542621	Barium cyanide	ON1021
P024	106478	Benzenamine, 4chloro	ON1022
P077	100016	Benzenamine, 4nitro	ON1023
P028	100447	Benzene, (chloromethyl)	ON1024
P046	122098	Benzeneethanamine, alpha,alphadimethyl	ON1052
P014	108985	Benzenethiol	ON1026
P188	57647	Benzoic acid, 2hydroxy, compd. With (3aScis)1,2,3,3a,8,8ahexahydro1,3a,8trimethylpyrrolo[2,3b]indol 5yl methylcarbamate ester (1:1)	
P028	100447	Benzyl chloride	ON1024
P015	7440417	Beryllium powder	ON1027
P017	598312	Bromoacetone	ON1029
P018	357573	Brucine	ON1030

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P021	592018	Calcium cyanide	ON1031
P021	592018	Calcium cyanide $Ca(CN)_2$	ON1031
P189	55285148	Carbamic acid, [(dibutylamino)thio]methyl, 2,3dihydro2,2dimethyl 7benzofuranyl ester	
P191	644644	Carbamic acid, dimethyl, 1[(dimethylamino)carbonyl] 5methyl1H pyrazol3-yl este	
P190	1129415	Carbamic acid, methyl, 3methylphenyl ester	
P192	119-38-0	Carbamic acid,dimethyl-,3-methyl-1-(1methylethyl)-1H-pyrazol-5-yl ester	
P127	1563662	Carbofuran	
P022	75150	Carbon disulfide	ON1034
P095	75445	Carbonic dichloride	ON1035
P189	55285148	Carbosulfan	
P023	107200	Chloroacetaldehyde	ON1001
P029	544923	Copper cyanide	ON1039
P029	544923	Copper cyanide Cu(CN)	ON1039
P030	N/A	Cyanides (soluble cyanide salts), not otherwise specified	ON1040
P031	460195	Cyanogen	ON1041
P033	506774	Cyanogen chloride	ON1036
P033	506774	Cyanogen chloride (CN)Cl	ON1036
P016	542881	Dichloromethyl ether	ON1028
P036	696286	Dichlorophenylarsine	ON1042
P037	60571	Dieldrin	ON1043
P038	692422	Diethylarsine	ON1019
P041	311455	Diethylpnitrophenyl phosphate	ON1045
P043	55914	Diisopropylfluorophosphate (DFP)	ON1047

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P044	60515	Dimethoate	ON1048
P191	644644	Dimetilan.	
P020	88857	Dinoseb	ON1056
P085	152169	Diphosphoramide, octamethyl	ON1057
P111	107493	Diphosphoric acid, tetraethyl ester	ON1098
P039	298044	Disulfoton	ON1044
P049	541537	Dithiobiuret	ON1058
P050	115297	Endosulfan	ON1060
P088	145733	Endothall	ON1061
P051	72208	Endrin	ON1062
P051	72208	Endrin, & metabolites	ON1062
P042	51434	Epinephrine	ON1025
P031	460195	Ethanedinitrile	ON1041
P194	23135220	Ethanimidothioc acid, 2(dimethylamino)N[[(methylamino)carbonyl]oxy]2oxo, methyl ester	
P066	16752775	Ethanimidothioic acid, N[[(methylamino)carbonyl]oxy],methyl ester	ON1004
P101	107120	Ethyl cyanide	ON1064
P054	151564	Ethyleneimine	ON1020
P097	52857	Famphur	ON1065
P056	7782414	Fluorine	ON1066
P057	640197	Fluoroacetamide	ON1003
P058	62748	Fluoroacetic acid, sodium salt	ON1067
P198	23422539	Formetanate hydrochloride	
P197	17702577	Formparanate	

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P065	628864	Fulminic acid, mercury(2+) salt	ON1068
P059	76448	Heptachlor	ON1069
P062	757584	Hexaethyl tetraphosphate	ON1072
P068	60344	Hydrazine, methyl	ON1074
P116	79196	Hydrazinecarbothioamide	ON1073
P063	74908	Hydrocyanic acid	ON1075
P063	74908	Hydrogen cyanide	ON1075
P096	7803512	Hydrogen phosphide	ON1077
P060	465736	Isodrin	ON1070
P192	119380	Isolan	
P196	15339363	Manganese dimethyl dithiocarbamate	
P196	15339363	Manganese,bis(dimethylcarbamodithioatoS,S')	
P202	64006	MCumenyl methylcarbamate	
P065	628864	Mercury fulminate	ON1068
P092	62384	Mercury, (acetatoO)phenyl	ON1079
P082	62759	Methanamine, NmethylNnitroso	ON1051
P064	624839	Methane, isocyanato	ON1078
P016	542881	Methane, oxybis[chloro	ON1028
P112	509148	Methane, tetranitro	ON1080
P118	75707	Methanethiol, trichloro	ON1081
P197	17702577	Methanimidamide,N,NdimethylN'[2methyl4[[(methylamino)carbonyl]oxy]phenyl]	
P198	23422539	Methanimidamide,N,NdimethylN'[3[[(methylamino)carbonyl]oxy]phenyl],monohydrochloride	
P199	2032657	Methiocarb	

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P066	16752775	Methomyl	ON1004
P068	60344	Methyl hydrazine	ON1074
P064	624839	Methyl isocyanate	ON1078
P071	298000	Methyl parathion	ON1050
P190	1129415	Metolcarb	
P128	31584	Mexacarbate	
P073	13463393	Nickel carbonyl	ON1084
P073	13463393	Nickel carbonyl $Ni(CO)_4$,(T4)	ON1084
P074	557197	Nickel cyanide	ON1085
P074	557197	Nickel cyanide $Ni(CN)_2$	ON1085
P075	**54115	Nicotine, & salts	ON1086
P076	10102439	Nitric oxide	ON1087
P078	10102440	Nitrogen dioxide	ON1088
P076	10102439	Nitrogen oxide NO	ON1087
P078	10102440	Nitrogen oxide NO_2	ON1088
P081	55630	Nitroglycerine	ON1089
P082	62759	NNitrosodimethylamine	ON1051
P084	4549400	NNitrosomethylvinylamine	ON1063
P040	297972	O,ODiethyl Opyrazinyl phosphorothioate	ON1046
P085	152169	Octamethylpyrophosphoramide	ON1057
P087	20816120	Osmium oxide OsO_4,(T4)	ON1090
P087	20816120	Osmium tetroxide	ON1090
P194	23135220	Oxamyl	

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P089	56382	Parathion	ON1091
P024	106478	pChloroaniline	ON1022
P020	88857	Phenol, 2(1methylpropyl)4,6dinitro	ON1056
P009	131748	Phenol, 2,4,6trinitro, ammonium salt	ON1015
P048	51285	Phenol, 2,4dinitro	ON1055
P034	131895	Phenol, 2cyclohexyl4,6dinitro	ON1054
P047	**534521	Phenol, 2methyl4,6dinitro, & salts	ON1053
P202	64006	Phenol, 3(1methylethyl), methyl carbamate	
P201	2631370	Phenol, 3methyl5(1methylethyl),methyl carbamate	
P199	2032657	Phenol,(3,5dimethyl4(methylthio),methylcarbamate	
P128	315184	Phenol,4(dimethylamino)3,5dimethyl, methylcarbamate (ester)	
P092	62384	Phenylmercury acetate	ON1079
P093	103855	Phenylthiourea	ON1092
P094	298022	Phorate	ON1093
P095	75445	Phosgene	ON1035
P096	7803512	Phosphine	ON1077
P041	311455	Phosphoric acid, diethyl 4nitrophenyl ester	ON1045
P094	298022	Phosphorodithioic acid, O,Odiethyl S[(ethylthio)methyl] ester	ON1093
P039	298044	Phosphorodithioic acid, O,Odiethyl S[2(ethylthio)ethyl] ester	ON1044
P044	60515	Phosphorodithioic acid,O,OdimethylS[2(methylamino)2oxoethyl] ester	ON1048
P043	55914	Phosphorofluoridic acid, bis(1methylethyl) ester	ON1047
P071	298000	Phosphorothioic acid, O,O,dimethyl O(4nitrophenyl) ester	ON1050
P089	56382	Phosphorothioic acid, O,Odiethyl O(4nitrophenyl) ester	ON1091

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P040	297972	Phosphorothioic acid, O,Odiethyl Opyrazinyl ester	ON1046
P097	52857	Phosphorothioic acid, O[4[(dimethylamino)sulfonyl]phenyl] O,Or dimethyl ester	ON1065
P188	57647	Physostigmine salicylate.	
P204	57476	Physostigmine.	
P110	78002	Plumbane, tetraethyl	ON1094
P077	100016	pNitroaniline	ON1023
P098	151508	Potassium cyanide	ON1095
P098	151508	Potassium cyanide K(CN)	ON1095
P099	506616	Potassium silver cyanide	ON1096
P201	2631370	Promecarb	
P203	1646884	Propanal,2methyl2(methylsulfonyl),O[(methylamino)carbonyl] oxime	
P070	116063	Propanal,2methyl2(methylthio),O[(methylamino)carbonyl]oxime	ON1009
P101	107120	Propanenitrile	ON1064
P069	75865	Propanenitrile, 2hydroxy2methyl	ON1005
P027	542767	Propanenitrile, 3chloro	ON1038
P102	107197	Propargyl alcohol	ON1097
P075	**54115	Pyridine, 3(1methyl2pyrrolidinyl), (S), & salts	ON1086
P204	57476	Pyrrolo[2,3b]indol5ol,1,2,3,3a,8,8ahexahydro1,3a,8 trimethyl,methylcarbamate (ester), (3aScis)	
P114	12039520	Selenious acid, dithallium(1+) salt	ON1106
P103	630104	Selenourea	ON1033
P104	506649	Silver cyanide	ON1099
P104	506649	Silver cyanide Ag(CN)	ON1099
P105	26628228	Sodium azide	ON1100

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P106	143339	Sodium cyanide	ON1101
P106	143339	Sodium cyanide Na(CN)	ON1101
P108	**57249	Strychnidin10one, & salts	ON1103
P018	357573	Strychnidin10one, 2,3dimethoxy	ON1030
P108	**57249	Strychnine, & salts	ON1103
P115	7446186	Sulfuric acid, dithallium(1+) salt	ON1105
P110	78002	Tetraethyl lead	ON1094
P111	107493	Tetraethyl pyrophosphate	ON1098
P109	3689245	Tetraethyldithiopyrophosphate	ON1059
P112	509148	Tetranitromethane	ON1080
P062	757584	Tetraphosphoric acid, hexaethyl ester	ON1072
P113	1314325	Thallic oxide	ON1104
P113	1314325	Thallium oxide Tl_2O_3	ON1104
P114	12039520	Thallium(I) selenite	ON1106
P115	7446186	Thallium(I) sulfate	ON1105
P109	3689245	Thiodiphosphoric acid, tetraethyl ester	ON1059
P045	39196184	Thiofanox	ON1049
P049	541537	Thioimidodicarbonic diamide $[(H_2N)C(S)]_2NH$	ON1058
P014	108985	Thiophenol	ON1026
P116	79196	Thiosemicarbazide	ON1073
P026	5344821	Thiourea, (2chlorophenyl)	ON1037
P072	86884	Thiourea, 1naphthalenyl	ON1083
P093	103855	Thiourea, phenyl	ON1092

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
P185	26419738	Tirpate	
P123	8001352	Toxaphene	ON1032
P118	75707	Trichloromethanethiol	ON1081
P119	7803556	Vanadic acid, ammonium salt	ON1014
P120	1314621	Vanadium oxide V_2O_5	ON1107
P120	1314621	Vanadium pentoxide	ON1107
P084	4549400	Vinylamine, NmethylNnitroso	ON1063
P001	**81812	Warfarin, & salts, when present at concentrations greater than 0.3%	ON1006
P121	557211	Zinc cyanide	ON1108
P121	557211	Zinc cyanide $Zn(CN)_2$	ON1108
P122	1314847	Zinc phosphide Zn_3P_2, when present at concentrations greater than 10%	ON1109
P205	137304	Zinc, bis(dimethylcarbamodithioatoS,S'),	
P205	137304	Ziram	

Part B - Hazardous Waste Chemicals

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U021	92875	[1,1Biphenyl]4,4diamine	ON2064
U073	91941	[1,1'Biphenyl]4,4'diamine, 3,3'dichloro	ON2071
U091	119904	[1,1'Biphenyl]4,4'diamine, 3,3'dimethoxy	ON2072
U095	119937	[1,1'Biphenyl]4,4'diamine, 3,3'dimethyl	ON2073
U208	630206	1,1,1,2Tetrachloroethane	ON2158
U209	79345	1,1,2,2Tetrachloroethane	ON2159
U227	79005	1,1,2Trichloroethane	ON2162

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U078	75354	1,1Dichloroethylene	ON2128
U098	57147	1,1Dimethylhydrazine	ON2144
U207	95943	1,2,4,5Tetrachlorobenzene	ON2061
U085	1464535	1,2:3,4Diepoxybutane	ON2070
U069	84742	1,2Benzenedicarboxylic acid, dibutyl ester	ON2037
U088	84662	1,2Benzenedicarboxylic acid, diethyl ester	ON2038
U102	131113	1,2Benzenedicarboxylic acid, dimethyl ester	ON2039
U107	117840	1,2Benzenedicarboxylic acid, dioctyl ester	ON2040
U028	117817	1,2Benzenedicarboxylic acid,bis(2ethylhexyl) ester	ON2036
U202	**81072	1,2Benzisothiazol3(2H)one, 1,1dioxide, & salts	ON2065
U066	96128	1,2Dibromo3chloropropane	ON2124
U079	156605	1,2Dichloroethylene	ON2129
U099	540738	1,2Dimethylhydrazine	ON2145
U109	122667	1,2Diphenylhydrazine	ON2148
U155	91805	1,2Ethanediamine,N,NdimethylN'2pyridinylN'(2thienylmethyl)	ON2202
U193	1120714	1,2Oxathiolane, 2,2dioxide	ON2216
U142	143500	1,3,4Metheno2Hcyclobuta[cd]pentalen2one, 1,1a,3,3a,4,5,5,5a,5b,6decachlorooctahydro	ON2118
U234	99354	1,3,5Trinitrobenzene	ON2063
U182	123637	1,3,5Trioxane, 2,4,6trimethyl	ON2217
U201	108463	1,3Benzenediol	ON2046
U364	22961826	1,3Benzodioxol4ol, 2,2dimethyl,	
U278	22781233	1,3Benzodioxol4ol, 2,2dimethyl,methyl carbamate	
U141	120581	1,3Benzodioxole, 5(1propenyl)	ON2054
U203	94597	1,3Benzodioxole, 5(2propenyl)	ON2053

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U090	94586	1,3Benzodioxole, 5propyl	ON2055
U128	87683	1,3Butadiene, 1,1,2,3,4,4hexachloro	ON2079
U130	77474	1,3Cyclopentadiene, 1,2,3,4,5,5hexachloro	ON2112
U084	542756	1,3Dichloropropene	ON2135
U190	85449	1,3Isobenzofurandione	ON2035
U186	504609	1,3Pentadiene	ON2203
U193	1120714	1,3Propane sultone	ON2216
U074	764410	1,4Dichloro2butene	ON2086
U108	123911	1,4Diethyleneoxide	ON2136
U108	123911	1,4Dioxane	ON2136
U166	130154	1,4Naphthalenedione	ON2208
U166	130154	1,4Naphthoquinone	ON2208
U172	924163	1Butanamine, NbutylNnitroso	ON2080
U031	71363	1Butanol	ON2082
U011	61825	1H1,2,4Triazol3amine	ON2016
U186	504609	1Methylbutadiene	ON2203
U167	134327	1Naphthalenamine	ON2210
U279	63252	1Naphthalenol, methylcarbamate.	
U194	107108	1Propanamine	ON2224
U111	621647	1Propanamine, NnitrosoNpropyl	ON2150
U110	142847	1Propanamine, Npropyl	ON2149
U235	126727	1Propanol, 2,3dibromo, phosphate (3:1)	ON2225
U140	78831	1Propanol, 2methyl	ON2189
U243	1888717	1Propene, 1,1,2,3,3,3hexachloro	ON2184

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U084	542756	1Propene, 1,3dichloro	ON2135
U085	1464535	2,2Bioxirane	ON2070
F027	58902	2,3,4,6Tetrachlorophenol	ON2219
U237	66751	2,4(1H,3H)Pyrimidinedione, 5[bis(2chloroethyl)amino]	ON2237
F027	93765	2,4,5T	ON2233
F027	95954	2,4,5Trichlorophenol	ON2220
U408	118796	2,4,6Tribromophenol	
F027	88062	2,4,6Trichlorophenol	ON2221
U240	**94757	2,4D, salts & esters	ON2114
U081	120832	2,4Dichlorophenol	ON2132
U101	105679	2,4Dimethylphenol	ON2146
U105	121142	2,4Dinitrotoluene	ON2051
U197	106514	2,5Cyclohexadiene1,4dione	ON2068
U147	108316	2,5Furandione	ON2177
U082	87650	2,6Dichlorophenol	ON2133
U106	606202	2,6Dinitrotoluene	ON2052
U236	72571	2,7Naphthalenedisulfonic acid, 3,3'[(3,3'dimethyl[1,1'biphenyl]4,4'diyl)bis(azo)bis[5amino4 hydroxy],tetrasodium salt	ON2209
U005	53963	2Acetylaminofluorene	ON2004
U159	78933	2Butanone	ON2083
U160	1338234	2Butanone, peroxide	ON2084
U053	4170303	2Butenal	ON2085
U074	764410	2Butene, 1,4dichloro	ON2086

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U143	303344	2Butenoic acid, 2methyl, 7[[2,3dihydroxy2(1methoxyethyl)3methyl1oxobutoxy]methyl]2,3,5,7atetrahydro1Hpyrrolizin1yl ester,[1S[1alpha(Z),7(2S*,3R*),7aalpha]]	ON2190
U042	110758	2Chloroethyl vinyl ether	ON2103
U125	98011	2Furancarboxaldehyde	ON2176
U058	50180	2H1,3,2Oxazaphosphorin2amine,N,Nbis(2chloroethyl)tetrahydro, 2oxide	ON2113
U248	**81812	2H1Benzopyran2one,4hydroxy3(3oxo1phenylbutyl), & salts, when present at concentrations of 0.3% or less	ON2009
U116	96457	2Imidazolidinethione	ON2169
U168	91598	2Naphthalenamine	ON2211
U171	79469	2Nitropropane	ON2213
U191	109068	2Picoline	ON2223
U002	67641	2Propanone	ON2226
U007	79061	2Propenamide	ON2012
U009	107131	2Propenenitrile	ON2014
U152	126987	2Propenenitrile, 2methyl	ON2195
U008	79107	2Propenoic acid	ON2013
U118	97632	2Propenoic acid, 2methyl, ethyl ester	ON2170
U162	80626	2Propenoic acid, 2methyl, methyl ester	ON2205
U113	140885	2Propenoic acid, ethyl ester	ON2167
U073	91941	3,3'Dichlorobenzidine	ON2071
U091	119904	3,3'Dimethoxybenzidine	ON2072
U095	119937	3,3'Dimethylbenzidine	ON2073
U148	123331	3,6Pyridazinedione, 1,2dihydro	ON2141
U157	56495	3Methylcholanthrene	ON2021

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U164	56042	4(1H)Pyrimidinone, 2,3dihydro6methyl2thioxo	ON2206
U158	101144	4,4'Methylenebis(2chloroaniline)	ON2028
U036	57749	4,7Methano1Hindene, 1,2,4,5,6,7,8,8octachloro2,3,3a,4,7,7ahexahydro	ON2099
U030	101553	4Bromophenyl phenyl ether	ON2033
U049	3165933	4Chlorootoluidine, hydrochloride	ON2026
U161	108101	4Methyl2pentanone	ON2204
U059	20830813	5,12Naphthacenedione,8acetyl10[(3amino2,3,6trideoxy)alpha Llyxohexopyranosyl)oxy]7,8,9,10tetrahydro6,8,11trihydroxy1methoxy, (8Scis)	ON2115
U181	99558	5Nitrootoluidine	ON2030
U094	57976	7,12Dimethylbenz[a]anthracene	ON2025
U367	1563388	7Benzofuranol, 2,3dihydro2,2dimethyl	
U394	30558431	A2213	
U001	75070	Acetaldehyde	ON2001
U034	75876	Acetaldehyde, trichloro	ON2002
U187	62442	Acetamide, N(4ethoxyphenyl)	ON2003
U005	53963	Acetamide, N9Hfluoren2yl	ON2004
U112	141786	Acetic acid ethyl ester	ON2005
See F027	93765	Acetic acid, (2,4,5trichlorophenoxy)	ON2233
U240	**94757	Acetic acid, (2,4dichlorophenoxy),salts & esters	ON2114
U144	301042	Acetic acid, lead(2+) salt	ON2006
U214	563688	Acetic acid, thallium(1+) salt	ON2007
U002	67641	Acetone	ON2226
U003	75058	Acetonitrile	ON2008
U004	98862	Acetophenone	ON2010

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U006	75365	Acetyl chloride	ON2011
U007	79061	Acrylamide	ON2012
U008	79107	Acrylic acid	ON2013
U009	107131	Acrylonitrile	ON2014
U096	80159	alpha,alphaDimethylbenzylhydroperoxide	ON2143
U167	134327	alphaNaphthylamine	ON2210
U011	61825	Amitrole	ON2016
U012	62533	Aniline	ON2017
U136	75605	Arsinic acid, dimethyl	ON2087
U014	492808	Auramine	ON2018
U015	115026	Azaserine	ON2019
U010	50077	Azirino[2,3_3,4]pyrrolo[1,2a]indole4,7dione,6amino8[[(aminocarbonyl)oxy]methyl]1,1a,2,8,8a,8bhexahydro8amethoxy5methyl, [1aS(1aalpha,8beta,8aalpha,8balpha)]	ON2020
U280	101279	Barban.	
U364	22961826	Bendiocarb phenol	
U278	22781233	Bendiocarb.	
U271	17804352	Benomyl.	
U018	56553	Benz[a]anthracene	ON2024
U094	57976	Benz[a]anthracene, 7,12dimethyl	ON2025
U016	225514	Benz[c]acridine	ON2022
U157	56495	Benz[j]aceanthrylene, 1,2dihydro3methyl	ON2021
U017	98873	Benzal chloride	ON2023
U192	23950585	Benzamide,3,5dichloroN(1,1dimethyl2propynyl)	ON2127
U012	62533	Benzenamine	ON2017

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U328	95534	Benzenamine, 2methyl	
U222	636215	Benzenamine, 2methyl, hydrochloride	ON2029
U181	99558	Benzenamine, 2methyl5nitro	ON2030
U014	492808	Benzenamine, 4,4carbonimidoylbis[N,Ndimethyl	ON2018
U158	101144	Benzenamine, 4,4methylenebis[2chloro	ON2028
U049	3165933	Benzenamine, 4chloro2methyl,hydrochloride	ON2026
U353	106490	Benzenamine, 4methyl	
U093	60117	Benzenamine, N,Ndimethyl4(phenylazo)	ON2027
U019	71432	Benzene	ON2031
U055	98828	Benzene, (1methylethyl)	ON2056
U017	98873	Benzene, (dichloromethyl)	ON2023
U023	98077	Benzene, (trichloromethyl)	ON2062
U247	72435	Benzene, 1,1(2,2,2trichloroethylidene)bis[4 methoxy	ON2163
U207	95943	Benzene, 1,2,4,5tetrachloro	ON2061
U070	95501	Benzene, 1,2dichloro	ON2041
U234	99354	Benzene, 1,3,5trinitro	ON2063
U071	541731	Benzene, 1,3dichloro	ON2042
U223	26471625	Benzene, 1,3diisocyanatomethyl	ON2044
U072	106467	Benzene, 1,4dichloro	ON2043
U030	101553	Benzene, 1bromo4phenoxy	ON2033
U105	121142	Benzene, 1methyl2,4dinitro	ON2051
U106	606202	Benzene, 2methyl1,3dinitro	ON2052
U037	108907	Benzene, chloro	ON2034
U239	1330207	Benzene, dimethyl	ON2045

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U127	118741	Benzene, hexachloro	ON2047
U056	110827	Benzene, hexahydro	ON2048
U220	108883	Benzene, methyl	ON2050
U169	98953	Benzene, nitro	ON2057
U183	608935	Benzene, pentachloro	ON2058
U185	82688	Benzene, pentachloronitro	ON2059
U061	50293	Benzene,1,1(2,2,2trichloroethylidene)bis[4chloro	ON2117
U060	72548	Benzene,1,1(2,2dichloroethylidene)bis[4chloro	ON2116
U038	510156	Benzeneacetic acid,4chloroalpha (4chlorophenyl)alphahydroxy, ethyl ester	ON2032
U035	305033	Benzenebutanoic acid, 4[bis(2chloroethyl)amino]	ON2081
U221	25376458	Benzenediamine, armethyl	ON2121
U020	98099	Benzenesulfonic acid chloride	ON2060
U020	98099	Benzenesulfonyl chloride	ON2060
U021	92875	Benzidine	ON2064
U022	50328	Benzo[a]pyrene	ON2067
U064	189559	Benzo[rst]pentaphene	ON2123
U023	98077	Benzotrichloride	ON2062
U047	91587	betaChloronaphthalene	ON2106
U168	91598	betaNaphthylamine	ON2211
U225	75252	Bromoform	ON2078
U136	75605	Cacodylic acid	ON2087
U032	13765190	Calcium chromate	ON2088
U280	101279	Carbamic acid, (3chlorophenyl), 4chloro2butynyl ester	
U409	23564058	Carbamic acid, [1,2phenylenebis (iminocarbonothioyl)]bis, dimethyl ester	

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U271	17804352	Carbamic acid, [1[(butylamino)carbonyl]1Hbenzimidazol2yl], methyl ester	
U372	10605217	Carbamic acid, 1Hbenzimidazol2yl,methyl ester	
U238	51796	Carbamic acid, ethyl ester	ON2089
U178	615532	Carbamic acid, methylnitroso, ethyl ester	ON2090
U373	122429	Carbamic acid, phenyl, 1methylethyl ester	
U097	79447	Carbamic chloride, dimethyl	ON2094
U114	**111546	Carbamodithioic acid, 1,2ethanediylbis,salts & esters	ON2155
U389	2303175	Carbamothioic acid, bis(1methylethyl), S(2,3,3trichloro2propenyl)ester	
U062	2303164	Carbamothioic acid, bis(1methylethyl)S(2,3dichloro2propenyl) ester	ON2119
U387	52888809	Carbamothioic acid, dipropyl, S(phenylmethyl) ester	
U279	63252	Carbaryl.	
U372	10605217	Carbendazim	
U367	1563388	Carbofuran phenol	
U033	353504	Carbon oxyfluoride	ON2097
U211	56235	Carbon tetrachloride	ON2098
U215	6533739	Carbonic acid, dithallium(1+) salt	ON2095
U033	353504	Carbonic difluoride	ON2097
U156	79221	Carbonochloridic acid, methyl ester	ON2096
U034	75876	Chloral	ON2002
U035	305033	Chlorambucil	ON2081
U036	57749	Chlordane, alpha & gamma isomers	ON2099
U026	494031	Chlornaphazin	ON2100
U037	108907	Chlorobenzene	ON2034

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U038	510156	Chlorobenzilate	ON2032
U044	67663	Chloroform	ON2104
U046	107302	Chloromethyl methyl ether	ON2105
U032	13765190	Chromic acid H_2CrO_4, calcium salt	ON2088
U050	218019	Chrysene	ON2069
U051	N/A	Creosote	ON2108
U052	1319773	Cresol (Cresylic acid)	ON2109
U053	4170303	Crotonaldehyde	ON2085
U055	98828	Cumene	ON2056
U246	506683	Cyanogen bromide (CN)Br	ON2077
U056	110827	Cyclohexane	ON2048
U129	58899	Cyclohexane, 1,2,3,4,5,6hexachloro,(1alpha,2alpha,3beta,4alpha,5alpha,6 beta)	ON2182
U057	108941	Cyclohexanone	ON2111
U058	50180	Cyclophosphamide	ON2113
U059	20830813	Daunomycin	ON2115
U060	72548	DDD	ON2116
U061	50293	DDT	ON2117
U206	18883664	DGlucose,2deoxy2[[(methylnitrosoamino)carbonyl]amino]	ON2179
U062	2303164	Diallate	ON2119
U063	53703	Dibenz[a,h]anthracene	ON2122
U064	189559	Dibenzo[a,i]pyrene	ON2123
U069	84742	Dibutyl phthalate	ON2037
U075	75718	Dichlorodifluoromethane	ON2126

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U025	111444	Dichloroethyl ether	ON2130
U027	108601	Dichloroisopropyl ether	ON2075
U024	111911	Dichloromethoxy ethane	ON2074
U088	84662	Diethyl phthalate	ON2038
U395	5952261	Diethylene glycol, dicarbamate	
U028	117817	Diethylhexyl phthalate	ON2036
U089	56531	Diethylstilbesterol	ON2140
U090	94586	Dihydrosafrole	ON2055
U102	131113	Dimethyl phthalate	ON2039
U103	77781	Dimethyl sulfate	ON2147
U092	124403	Dimethylamine	ON2142
U097	79447	Dimethylcarbamoyl chloride	ON2094
U107	117840	Dinoctyl phthalate	ON2040
U111	621647	Dinpropylnitrosamine	ON2150
U110	142847	Dipropylamine	ON2149
U041	106898	Epichlorohydrin	ON2102
U001	75070	Ethanal	ON2001
U404	121448	Ethanamine, N,Ndiethyl	
U174	55185	Ethanamine, NethylNnitroso	ON2151
U208	630206	Ethane, 1,1,1,2tetrachloro	ON2158
U226	71556	Ethane, 1,1,1trichloro	ON2161
U209	79345	Ethane, 1,1,2,2tetrachloro	ON2159
U227	79005	Ethane, 1,1,2trichloro	ON2162
U024	111911	Ethane, 1,1'[methylenebis(oxy)]bis[2chloro	ON2074

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U076	75343	Ethane, 1,1dichloro	ON2153
U117	60297	Ethane, 1,1'oxybis	ON2137
U025	111444	Ethane, 1,1'oxybis[2chloro	ON2130
U067	106934	Ethane, 1,2dibromo	ON2152
U077	107062	Ethane, 1,2dichloro	ON2154
U131	67721	Ethane, hexachloro	ON2156
U184	76017	Ethane, pentachloro	ON2157
U218	62555	Ethanethioamide	ON2160
U394	30558431	Ethanimidothioic acid, 2(dimethylamino)Nhydroxy2oxo,methyl ester	
U410	59669260	Ethanimidothioic acid, N,N'[thiobis[(methylimino)carbonyloxy]]bi s, dimethyl ester	
U173	1116547	Ethanol, 2,2'(nitrosoimino)bis	ON2164
U395	5952261	Ethanol, 2,2'oxybis, dicarbamate	
U359	110805	Ethanol, 2ethoxy	ON2239
U004	98862	Ethanone, 1phenyl	ON2010
U042	110758	Ethene, (2chloroethoxy)	ON2103
U078	75354	Ethene, 1,1dichloro	ON2128
U079	156605	Ethene, 1,2dichloro, (E)	ON2129
U043	75014	Ethene, chloro	ON2165
U210	127184	Ethene, tetrachloro	ON2166
U228	79016	Ethene, trichloro	ON2236
U112	141786	Ethyl acetate	ON2005
U113	140885	Ethyl acrylate	ON2167
U238	51796	Ethyl carbamate (urethane)	ON2089

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U117	60297	Ethyl ether	ON2137
U118	97632	Ethyl methacrylate	ON2170
U119	62500	Ethyl methanesulfonate	ON2171
U067	106934	Ethylene dibromide	ON2152
U077	107062	Ethylene dichloride	ON2154
U359	110805	Ethylene glycol monoethyl ether	ON2239
U115	75218	Ethylene oxide	ON2168
U114	**111546	Ethylenebisdithiocarbamic acid, salts & esters	ON2155
U116	96457	Ethylenethiourea	ON2169
U076	75343	Ethylidene dichloride	ON2153
U120	206440	Fluoranthene	ON2066
U122	50000	Formaldehyde	ON2173
U123	64186	Formic acid	ON2174
U124	110009	Furan	ON2175
U213	109999	Furan, tetrahydro	ON2178
U125	98011	Furfural	ON2176
U124	110009	Furfuran	ON2175
U206	18883664	Glucopyranose,2deoxy2(3methyl3nitrosoureido), D	ON2179
U126	765344	Glycidylaldehyde	ON2180
U163	70257	Guanidine, NmethylN'nitroNnitroso	ON2181
U127	118741	Hexachlorobenzene	ON2047
U128	87683	Hexachlorobutadiene	ON2079
U130	77474	Hexachlorocyclopentadiene	ON2112
U131	67721	Hexachloroethane	ON2156

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U132	70304	Hexachlorophene	ON2183
U243	1888717	Hexachloropropene	ON2184
U133	302012	Hydrazine	ON2120
U098	57147	Hydrazine, 1,1dimethyl	ON2144
U086	1615801	Hydrazine, 1,2diethyl	ON2138
U099	540738	Hydrazine, 1,2dimethyl	ON2145
U109	122667	Hydrazine, 1,2diphenyl	ON2148
U134	7664393	Hydrofluoric acid	ON2185
U134	7664393	Hydrogen fluoride	ON2185
U135	7783064	Hydrogen sulfide	ON2187
U135	7783064	Hydrogen sulfide H_2S	ON2187
U096	80159	Hydroperoxide, 1methyl1phenylethyl-	ON2143
U137	193395	Indeno[1,2,3cd]pyrene	ON2188
U140	78831	Isobutyl alcohol	ON2189
U141	120581	Isosafrole	ON2054
U142	143500	Kepone	ON2118
U143	303344	Lasiocarpine	ON2190
U144	301042	Lead acetate	ON2006
U145	7446277	Lead phosphate	ON2191
U146	1335326	Lead subacetate	ON2192
U146	1335326	Lead, bis(acetatoO)tetrahydroxytri	ON2192
U129	58899	Lindane	ON2182
U150	148823	LPhenylalanine, 4[bis(2chloroethyl)amino]	ON2015
U015	115026	LSerine, diazoacetate (ester)	ON2019

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U147	108316	Maleic anhydride	ON2177
U148	123331	Maleic hydrazide	ON2141
U149	109773	Malononitrile	ON2193
U071	541731	mDichlorobenzene	ON2042
U150	148823	Melphalan	ON2015
U151	7439976	Mercury	ON2194
U152	126987	Methacrylonitrile	ON2195
U092	124403	Methanamine, Nmethyl	ON2142
U029	74839	Methane, bromo	ON2196
U045	74873	Methane, chloro	ON2197
U046	107302	Methane, chloromethoxy	ON2105
U068	74953	Methane, dibromo	ON2125
U080	75092	Methane, dichloro	ON2131
U075	75718	Methane, dichlorodifluoro	ON2126
U138	74884	Methane, iodo	ON2198
U211	56235	Methane, tetrachloro	ON2098
U225	75252	Methane, tribromo	ON2078
U044	67663	Methane, trichloro	ON2104
U121	75694	Methane, trichlorofluoro	ON2200
U119	62500	Methanesulfonic acid, ethyl ester	ON2171
U153	74931	Methanethiol	ON2199
U154	67561	Methanol	ON2201
U155	91805	Methapyrilene	ON2202
U247	72435	Methoxychlor	ON2163

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U154	67561	Methyl alcohol	ON2201
U029	74839	Methyl bromide	ON2196
U045	74873	Methyl chloride	ON2197
U156	79221	Methyl chlorocarbonate	ON2096
U226	71556	Methyl chloroform	ON2161
U159	78933	Methyl ethyl ketone (MEK)	ON2083
U160	1338234	Methyl ethyl ketone peroxide	ON2084
U138	74884	Methyl iodide	ON2198
U161	108101	Methyl isobutyl ketone	ON2204
U162	80626	Methyl methacrylate	ON2205
U068	74953	Methylene bromide	ON2125
U080	75092	Methylene chloride	ON2131
U164	56042	Methylthiouracil	ON2206
U010	50077	Mitomycin C	ON2020
U163	70257	MNNG	ON2181
U086	1615801	N,N'Diethylhydrazine	ON2138
U026	494031	Naphthalenamine, N,N'bis(2chloroethyl)	ON2100
U165	91203	Naphthalene	ON2207
U047	91587	Naphthalene, 2chloro	ON2106
U031	71363	nButyl alcohol	ON2082
U217	10102451	Nitric acid, thallium(1+) salt	ON2235
U169	98953	Nitrobenzene	ON2057
U173	1116547	NNitrosodiethanolamine	ON2164
U174	55185	NNitrosodiethylamine	ON2151

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U172	924163	NNitrosodinbutylamine	ON2080
U176	759739	NNitrosoNethylurea	ON2091
U177	684935	NNitrosoNmethylurea	ON2092
U178	615532	NNitrosoNmethylurethane	ON2090
U179	100754	NNitrosopiperidine	ON2214
U180	930552	NNitrosopyrrolidine	ON2215
U194	107108	nPropylamine	ON2224
U087	3288582	O,ODiethyl Smethyl dithiophosphate	ON2139
U048	95578	oChlorophenol	ON2107
U070	95501	oDichlorobenzene	ON2041
U328	95534	oToluidine	
U222	636215	oToluidine hydrochloride	ON2029
U115	75218	Oxirane	ON2168
U041	106898	Oxirane, (chloromethyl)	ON2102
U126	765344	Oxiranecarboxyaldehyde	ON2180
U182	123637	Paraldehyde	ON2217
U197	106514	pBenzoquinone	ON2068
U039	59507	pChloromcresol	ON2101
U072	106467	pDichlorobenzene	ON2043
U093	60117	pDimethylaminoazobenzene	ON2027
U183	608935	Pentachlorobenzene	ON2058
U184	76017	Pentachloroethane	ON2157
U185	82688	Pentachloronitrobenzene (PCNB)	ON2059
F027	87865	Pentachlorophenol	ON2218

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U161	108101	Pentanol, 4methyl	ON2204
U187	62442	Phenacetin	ON2003
U188	108952	Phenol	ON2049
U411	114261	Phenol, 2(1methylethoxy),methylcarbamate	
F027	58902	Phenol, 2,3,4,6tetrachloro	ON2219
F027	95954	Phenol, 2,4,5trichloro	ON2220
F027	88062	Phenol, 2,4,6trichloro	ON2221
U081	120832	Phenol, 2,4dichloro	ON2132
U101	105679	Phenol, 2,4dimethyl	ON2146
U082	87650	Phenol, 2,6dichloro	ON2133
U048	95578	Phenol, 2chloro	ON2107
U089	56531	Phenol, 4,4'(1,2diethyl1,2ethenediyl)bis, (E)	ON2140
U039	59507	Phenol, 4chloro3methyl	ON2101
U170	100027	Phenol, 4nitro	ON2212
U052	1319773	Phenol, methyl	ON2109
F027	87865	Phenol, pentachloro	ON2218
U132	70304	Phenol,2,2'methylenebis[3,4,6trichloro	ON2183
U145	7446277	Phosphoric acid, lead(2+) salt (2:3)	ON2191
U087	3288582	Phosphorodithioic acid, O,Odiethyl Smethyl ester	ON2139
U189	1314803	Phosphorus sulfide	ON2222
U190	85449	Phthalic anhydride	ON2035
U179	100754	Piperidine, 1nitroso	ON2214
U170	100027	pNitrophenol	ON2212
U192	23950585	Pronamide	ON2127

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U066	96128	Propane, 1,2dibromo3chloro	ON2124
U083	78875	Propane, 1,2dichloro	ON2134
U027	108601	Propane, 2,2'oxybis[2chloro	ON2075
U171	79469	Propane, 2nitro	ON2213
U149	109773	Propanedinitrile	ON2193
F027	93721	Propanoic acid, 2(2,4,50 trichlorophenoxy)	ON2227
U373	122429	Propham	
U411	114261	Propoxur.	
U083	78875	Propylene dichloride	ON2134
U387	52888809	Prosulfocarb	
U353	106490	pToluidine	
U196	110861	Pyridine	ON2228
U191	109068	Pyridine, 2methyl	ON2223
U180	930552	Pyrrolidine, 1nitroso	ON2215
U200	50555	Reserpine	ON2229
U201	108463	Resorcinol	ON2046
U202	**81072	Saccharin, & salts	ON2065
U203	94597	Safrole	ON2053
U204	7783008	Selenious acid	ON2230
U204	7783008	Selenium dioxide	ON2230
U205	7488564	Selenium sulfide	ON2232
U205	7488564	Selenium sulfide SeS_2	ON2232
F027	93721	Silvex (2,4,5TP)	ON2227

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U206	18883664	Streptozotocin	ON2179
U189	1314803	Sulfur phosphide	ON2222
U103	77781	Sulfuric acid, dimethyl ester	ON2147
U210	127184	Tetrachloroethylene	ON2166
U213	109999	Tetrahydrofuran	ON2178
U216	7791120	Thallium chloride TlCl	ON2234
U214	563688	Thallium(I) acetate	ON2007
U215	6533739	Thallium(I) carbonate	ON2095
U216	7791120	Thallium(I) chloride	ON2234
U217	10102451	Thallium(I) nitrate	ON2235
U218	62555	Thioacetamide	ON2160
U410	59669260	Thiodicarb	
U153	74931	Thiomethanol	ON2199
U244	137268	Thioperoxydicarbonic diamide[$(H_2N)C(S)]_2S_2$, tetramethyl	ON2076
U409	23564058	Thiophanatemethyl	
U219	62566	Thiourea	ON2093
U244	137268	Thiram	ON2076
U220	108883	Toluene	ON2050
U223	26471625	Toluene diisocyanate	ON2044
U221	25376458	Toluenediamine	ON2121
U389	2303175	Triallate	
U228	79016	Trichloroethylene	ON2236
U121	75694	Trichloromonofluoromethane	ON2200
U404	121448	Triethylamine	

Hazardous waste No.	Chemical abstracts No.	Substance	Reference Number
U235	126727	Tris(2,3dibromopropyl) phosphate	ON2225
U236	72571	Trypan blue	ON2209
U237	66751	Uracil mustard	ON2237
U176	759739	Urea, NethylNnitroso	ON2091
U177	684935	Urea, NmethylNnitroso	ON2092
U043	75014	Vinyl chloride	ON2165
U248	** 81812	Warfarin, & salts, when present at concentrations of 0.3% or less	ON2009
U239	1330207	Xylene	ON2045
U200	50555	Yohimban16carboxylic acid,11,17dimethoxy 18[(3,4,5trimethoxybenzoyl)oxy], methyl ester,(3beta,16beta,17alpha, 18beta,20alpha)	ON2229
U249	1314847	Zinc phosphide Zn_3P_2, when present at concentrations of 10% or less	ON2238

**** CAS number given for parent compound only

5. Schedule 4 to the Regulation, including the Leachate Extraction Procedure, the Test Method for the Determination of "Liquid Waste" (Slump Test) and Figures 1, 2 and 3, is revoked and the following substituted:

Schedule 4

LEACHATE QUALITY CRITERIA

CONTAMINANT	CONCENTRATION (mg/l)
Aldicarb	0.9
Aldrin + Dieldrin	0.07
Arsenic	2.5
Atrazine + N-dealkylated metabolites (Weedex)	0.5
Azinphos-methyl	2.0
Barium	100.0
Bendiocarb	4.0
Benzene	0.5
Benzo(a)pyrene	0.001
Boron	500.0
Bromoxynil	0.5
Cadmium	0.5
Carbaryl/Sevin/1-Naphthyl-N methyl carbamate	9.0
Carbofuran	9.0
Carbon tetrachloride (Tetrachloromethane)	0.5
Chlordane	0.7
Chlorobenzene (Monochlorobenzene)	8.0
Chloroform	10.0
Chlorpyrifos	9.0
Chromium	5.0
Cresol (Mixture - total of all isomers, when isomers cannot be differentiated)	200.0
m-Cresol	200.0
o-Cresol	200.0
p-Cresol	200.0
Cyanazine	1.0
Cyanide	20.0
2,4-D / (2,4-dichlorophenoxy)acetic acid	10.0
2,4-DCP (2,4-Dichlorophenol)	90.0
DDT (total isomers)	3.0
Diazinon/Phosphordithioic acid, o,o-diethyl o-(2-isopropyl 6-methyl-4-pyrimidinyl)ester	2.0
Dicamba	12.0
1,2-Dichlorobenzene (o-Dichlorobenzene)	20.0
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.5
1,2-Dichloroethane (Ethylene dichloride)	0.5
1,1-Dichloroethylene (Vinylidene chloride)	1.4
Dichloromethane (also see - methylene chloride)	5.0
Diclofop-methyl	0.9
Dimethoate	2.0
2,4-Dinitrotoluene	0.13
Dinoseb	1.0
Dioxin & Furan	0.0000015*

Diquat	7.0
Diuron	15.0
Endrin	0.02
Fluoride	150.0
Glyphosate	28.0
Heptachlor + Heptachlor epoxide	0.3
Hexachlorobenzene	0.13
Hexachlorobutadiene	0.5
Hexachloroethane	3.0
Lead	5.0
Lindane	0.4
Malathion	19.0
Mercury	0.1
Methoxychlor/1,1,1-Trichloro-2,2-bis(p-methoxyphenyl) ethane	90.0
Methyl ethyl ketone / Ethyl methyl ketone	200.0
Methyl Parathion	0.7
Methylene chloride / Dichloromethane	5.0
Metolachlor	5.0
Metribuzin	8.0
NDMA	0.0009
Nitrate + Nitrite (as Nitrogen)	1,000.0
Nitrilotriacetic acid (NTA)	40.0
Nitrobenzene	2.0
Paraquat	1.0
Parathion	5.0
PCBs	0.3
Pentachlorophenol	6.0
Phorate	0.2
Picloram	19.0
Pyridine	5.0
Selenium	1.0
Silver	5
Simazine	1.0
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	28.0
2,4,5-TP/ Silvex/ 2-(2,4,5-Trichlorophenoxy)propionic acid	1.0
Temephos	28.0
Terbufos	0.1
Tetrachloroethylene	3.0
2,3,4,6-Tetrachlorophenol /(2,3,4,6-TeCP)	10.0
Toxaphene	0.5
Triallate	23.0
Trichloroethylene	5.0
2,4,5-Trichlorophenol (2,4,5-TCP)	400.0
2,4,6-Trichlorophenol (2,4,6-TCP)	0.5
Trifluralin	4.5
Uranium	10.0
Vinyl chloride	0.2

***** Toxic equivalent (TEQ)

Schedule 5

TEST METHOD FOR THE DETERMINATION OF
"LIQUID WASTE" (SLUMP TEST)*

1) Sampling

Obtain a representative sample of the waste to be tested.

2) Equipment

2.1 Mould—the representative waste sample shall be formed in a mould, in the form of the frustum of a cone with the base 200 mm in diameter, the top 100 mm in diameter, and the height 300 mm. The base and the top shall be open and parallel to each other and at right angles to the axis of the cone. The mould shall be made of a metal that is chemically resistant to the wastes to be tested and that has a thickness that is at least 1.5 mm. It shall be provided with foot pieces and handles as shown in Figure 1.

2.2 Tamping Rod—the rod shall be round, straight, and steel with a diameter of 16 mm and a length of 600 mm. One end shall be rounded to a hemispherical tip with a diameter of 16 mm.

3) Procedure

3.1 Dampen the mould and place it on a flat, moist, non-absorbent (rigid) surface. Hold the mould firmly in place during filling by standing on the two foot pieces. From the sample of the material obtained, immediately fill the mould in three layers, each approximately one-third the volume of the mould.

Notes: 1) The test must be carried out at a temperature of not less than 10°C.

2) One-third of the volume of the slump mould fills it to a depth of 70 mm. Two-thirds of the volume fills it to a depth of 160 mm.

3.2 Rod each layer with 25 strokes of the tamping rod. Uniformly distribute the strokes over the cross-section of each layer. For the bottom layer this will necessitate inclining the rod slightly and making approximately half of the strokes near the perimeter, and then progressing with vertical strokes spirally toward the center. Rod layers throughout their depth. For the second layer and the top layer, the strokes must just penetrate into the underlying layers.

3.3 When filling and rodding the top layer, heap the material above the mould before rodding is started. If the rodding operation results in subsidence of the material below the

top edge of the mould, add additional material to maintain an excess of material above the top of the mould. After the top layer has been rodded, the excess material shall be screeded off to the level of the top of the mould. Remove the spilled material from the base of the mould.

3.4 Withdraw the mould immediately from the material by raising it carefully in a vertical direction. The operation of raising the mould shall be performed in approximately 5 seconds by a steady upward lift with no lateral or torsional motion. The entire operation from the start of the filling through removal of the mould shall be carried out without interruption and shall be completed within 2 minutes.

3.5 Determine the slump immediately after by measuring the difference between the height of the mould and the average height of the top surface of the material after subsidence.

Notes: 1) Waste samples that break or slump laterally give incorrect results. When this condition occurs the test shall be repeated with a new sample.

2) If two consecutive tests on a sample of material show a falling away or shearing off of a portion of the material from the mass of the specimen, the material probably lacks necessary plasticity and cohesiveness for the slump test to be applicable.

3) Duplicate tests on two different portions of the sample should not vary more than 10 mm.

4) Report

4.1 Record the slump in millimeters to the nearest 10 mm of subsidence of the sample during the test.

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* The method is based on the Canadian Standards Association test method for determining the slump of concrete (A23.2-5C).

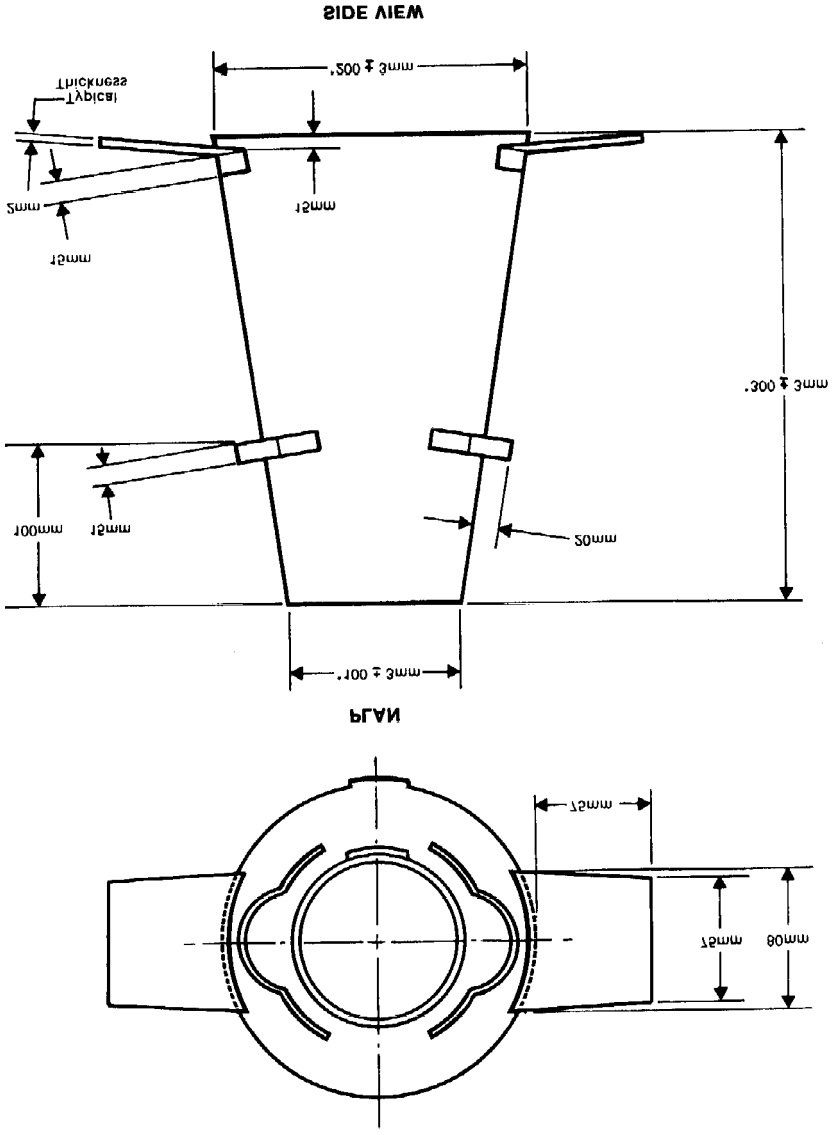

Figure 1
MOULD FOR SLUMP TEST

6. (1) Subject to subsection (2), this Regulation comes into force on the day it is filed.

(2) Sections 1, 2, 4 and 5 come into force on March 31, 2001.