

Hazardous Waste Management Guidebook

FOR

UNIVERSITY AT BUFFALO CAMPUS

LABORATORIES



REFER TO LABELING INSTRUCTIONS ON REVERSE SIDE

HAZARDOUS WASTE

FEDERAL AND STATE LAWS PROHIBIT IMPROPER DISPOSAL

Contents/Chemical Name (No Abbreviations or Symbols)	Volume(%)

Physical State: ☐ Solid ☐ Liquid ☐ Gas

Hazard Categories (Check all that apply):

☐ Compressed Gas ☐ Flammable Liquid ☐ Flammable Solid ☐ Oxidizer

☐ Toxic/Poison ☐ Corrosive ☐ Pyrophoric ☐ Water reactive

☐ Irritant ☐ Other

Container Start Date: **DATE WHEN FULL:**

Generator:

Building: Dept.:

Room: Phone:

UB **University at Buffalo** *The State University of New York*

IF FOUND, CONTACT OES @ (716) 829-2401

For OES Use Only. Packing Group:



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ACKNOWLEDGEMENT

EH&S wishes to acknowledge those institutions that provided information, resources, and references through their websites that were incorporated in this document:

- The State University of New York at Stony Brook
- University of Florida
- University of Louisville
- University of California San Diego
- University of Kentucky
- University of Maine
- University of Minnesota
- University of Illinois at Urbana-Champaign
- University of Wisconsin

Document Revision History

Revision #	Date	Section	Changes Made
Issued	05/09/03		Original Publication
Rev 1	02/12/04	5.2.2 5.2.5	Changed "must" to "should" (6 th bullet) Changed "must" to "should"
Rev 1.1	02/18/04	5.3.1	Added "Ethanol concentration of 24% or less" under Acceptable for Drain Disposal; Under Do No Drain Dispose..., changed 3 rd bullet to read "ethanol greater than 24%, etc."
Rev 2 (layout reformat)	05/20/11	5.3.2 5.3.3 5.3.4 5.3.8	Updated Biohazardous Wastes section Updated Radioactive Waste section Updated Mixed Radioactive /Chemical Waste section Added Battery Recycling Section
Rev 2.1	09-10-12	-	Changed wording so that one manual can be used for all campus locations (i.e. "campus labs/users", emergency numbers)
Rev 2.2	01-27-14	-	Incorporated this document into the new EH&S Laboratory Safety Manual. Removed the emergency contact number page from the front of this manual and added revised emergency contact information in callout boxes to section 5.6, Emergency and Spill Response

1.0 PURPOSE

Hazardous Waste at UB

Most campus Schools and Departments use, handle, or store some form of hazardous materials that will produce chemical waste requiring disposal. It is the practice of the University at Buffalo to provide a safe and appropriate means of managing these materials once they are no longer useful.

Every UB campus lab is subject to unannounced inspections by the USEPA and New York State Department of Environmental Conservation (NYSDEC). A single violation can result in up to a \$25,000 fine.

The purpose of this guidebook is to provide all UB Campus users with the following concise and direct information:

- Hazardous waste requirements by regulatory agencies
- Hazardous waste determination
- Hazardous waste accumulation, storage, and pickup procedures
- Procedures for empty hazardous material and waste containers
- Waste minimization procedures
- Emergency and spill response procedures
- Training requirements

The framework for hazardous waste regulation was established in 1976 by the Resource Conservation and Recovery Act (RCRA). RCRA was enacted by Congress to protect human health and the environment from improper management of hazardous waste. RCRA introduced the concept that the generator of a waste is responsible for proper waste management from "cradle-to-grave" (i.e., from laboratory to complete destruction).

RCRA regulations are found in the 40 Code of Federal Regulations (CFR) Parts 260-279 and can be accessed at the United States Environmental Protection Agency (USEPA) website (www.epa.gov). There are specific regulatory requirements for individuals who generate and accumulate chemical waste that cover training, proper waste identification, labeling, containment, and disposal, and waste minimization and recycling.

An overview of the UB hazardous waste management procedures is presented in this document. The procedures outlined in this document are designed to promote:

- Safe handling of wastes to prevent spills and other accidents
- An efficient disposal process for all employees at UB
- Compliance with all applicable regulations governing hazardous wastes

Implementation of these procedures requires the cooperation of faculty, staff, and students.

Questions on UB's hazardous waste management program should be directed to Environment, Health & Safety (EH&S) at 829-3301.

2.0 SCOPE

The scope of this document covers the hazardous waste management, training, and disposal requirements specified by the USEPA and NYSDEC for laboratory personnel. Specifically, this document is designed to comply with the regulations given in 40 CFR 260-272 by the USEPA and 6 NYCRR Part 373 by NYSDEC for satellite accumulation areas managed by employees of the University at Buffalo.

3.0 DEFINITIONS

Definitions and abbreviations used in this Guidebook:

CFR: Code of Federal Regulations

Generator: Per 40 CFR 260.10, "Any person, by site, whose act or process produces hazardous waste identified or listed in Part 261 or whose act first causes a hazardous waste to become subject to regulation."

HazMat: Hazardous materials

NYCRR: New York Code of Rules and Regulations

NYSDEC: New York State Department of Environmental Conservation

EH&S: Environment, Health & Safety Services

Person: (40 CFR 260.10) RCRA defines a "person" very broadly to mean an individual, trust, firm, joint stock company, Federal Agency, corporation, partnership, association, State, municipality, commission, political subdivision of a State, or any interstate body. For the University, a "person" would be a Principal Investigator or Supervisor, or Lab Worker.

RCRA: Resource Conservation and Recovery Act

RMW: Regulated Medical Waste

TCLP: Toxic Characteristic Leaching Procedure

UB: University at Buffalo, The State University of New York

University: UB

USEPA: United States Environmental Protection Agency

4.0 RESPONSIBILITIES

4.1 EH&S

EH&S functions both in an advisory and consultative capacity, and as a service organization for the hazardous waste management program at the University at Buffalo. Specific functions are as follows:

1. Coordinate the comprehensive hazardous waste management program
2. Ensure all hazardous waste permits are obtained and maintained current
3. Operate a campus-wide hazardous waste collection service which provides for the safe and timely collection/removal of hazardous materials
4. Manage applicable disposal service contracts
5. Prepare and submit regulatory reports, regulatory fees and hazardous waste taxes
6. Provide training to individuals who handle hazardous wastes or inspect accumulation areas
7. Coordinate the waste minimization program
8. Assist academic personnel (customers) with compliance questions and problems to continuously improve campus compliance

4.2 Faculty, Staff, and Students

Faculty, staff, and students have the following responsibilities:

1. Faculty, staff, and students are responsible for complying with the regulations and practices promulgated as a result of federal and state legislation, University policy and/or established guidelines.
2. Faculty and staff are responsible for ensuring employees and students are aware of and properly implementing safe handling and storage procedures for hazardous materials and wastes.

5.0 PROCEDURES

Disposal of hazardous waste using sinks, intentional evaporation, and general trashcans is prohibited by law. UB laboratory personnel must abide by strict state and federal waste disposal requirements. Use the following information to make sure you have identified all hazardous waste you generate and dispose of it properly.

5.1 Hazardous Waste Determination

USEPA - The US Environmental Protection Agency

Note that the EPA definition of generator provides no exclusion for infrequent or accidental waste generation. If you are not a generator, you can become a generator if you spill a product which is a hazardous waste when discarded.

Understanding the definition of generator will help you to better understand when and how your activities are regulated by law.

USEPA explicitly describes the requirements:

1. You must determine if you are a generator of hazardous waste. USEPA defines a generator in 40 CFR 260.10 as, "Any person, by site, whose act or process produces hazardous waste identified or listed in Part 261 or whose act first causes a hazardous waste to become subject to regulation."

The first thing you need to know is "Who is a Generator?" Within the definition presented here, there are several "key words" that need some explanation:

- **Person** - (40 CFR 260.10) RCRA defines a "person" very broadly to mean an individual, trust, firm, joint stock company, federal agency, corporation, partnership, association, state, municipality, commission, political subdivision of a state, or any interstate body. For the University, a "person" would be a Principal Investigator or Supervisor or lab worker.
- **Site** - while "site" is not specifically defined, the definition of the term "on-site" (40 CFR 260.10) talks about the same or geographically contiguous property. The point here is that each individual location owned by a "person" is a separate site, and thus a separate generator. For the University, each campus, and everything "inside its respective fence" is a site.
- **Produces a Waste** - as it implies, those whose act or process/produce a waste are generators of the waste. At the University the "person" that would produce the waste would be the respective Principal Investigator, supervisor, lab worker, or lab student that generates the waste.

ABANDONED CHEMICALS

Many laboratory waste generators accumulate or store chemicals which have value, but over time become "forgotten."



When the Principal Investigator or Supervisor fails to manage and maintain their chemicals (containers corrode, labels fall off, labels yellow with age, etc.), the chemicals, by USEPA definition, become "abandoned." An abandoned material is considered DISCARDED, and is therefore a SOLID WASTE.

**MANAGE OR DISPOSE OF
ABANDONED CHEMICALS
IMMEDIATELY**

2. A generator must determine if the waste is a solid waste. According to the USEPA, a solid waste DOES not have to be "solid!" A "solid" waste can be either solid, liquid, or a compressed gas and is specifically defined as:

Any discarded material that is:

- Abandoned through (1) disposal, (2) burning or incineration, or (3) accumulation, storage, or treatment; or
- Recycled; or
- Inherently waste-like (dioxins & furans)
- And is not excluded

3. If it is a solid waste, a generator must determine if the waste is a hazardous waste.

All wastes generated at the University must be characterized to determine whether they are a hazardous waste. Once you have a waste, it can be defined as a Hazardous Waste by two different means, "Characteristic" or "Listed" as described in the next section.

5.1.1 Characteristic Hazardous Wastes

A waste is hazardous if it exhibits any one of the four characteristics of a hazardous waste: *Ignitability*, *Corrosivity*, *Reactivity*, or *Toxicity*. Most wastes generated in laboratories will be hazardous due to one of these characteristics. If there is doubt as to whether your waste meets one of the four characteristics, EH&S requires it to be handled as a hazardous waste.

The following are a few examples of common wastes at the University:

Ignitable

- Flammable liquids - flashpoint <140°F - Alcohols, Benzene, Toluene, Xylene, Acetonitrile
- Oxidizers - Nitrates, Perchlorates, Bromates, Permanganates, Peroxides, Iodates
- Organic peroxides - Benzoyl Peroxide, Cumene Hydroperoxide, Methyl Ethyl Ketone Peroxide
- Flammable compressed gases – Butane, Acetylene, Ammonia

Corrosive - Aqueous liquids with pH <2 or pH >12.5 or other liquids capable of corroding steel at a rate of > 6.35 mm (0.250 inches)/year at a test temperature of 55° C (using an ASTM test procedure)

- Inorganic acids - Hydrochloric Acid, Sulfuric Acid, Nitric Acid, Perchloric Acid, Phosphoric Acid
- Organic acids - Formic Acid, Lactic Acid
- Bases - Hydroxide Solutions, Amines

Reactive - Materials which are normally unstable and readily undergo violent change, react violently with water, form potentially explosive mixtures with water, form toxic gases, vapors, or fumes when mixed with water, capable of detonation or explosive decomposition if subjected to a strong initiating source or heated under confinement, or capable of detonation or reaction at standard temperature and pressure

- Sulfides and cyanides
- Peroxide formers - Ethers, Potassium Amide, Sodium Amide, Vinyl Acetate, Tetrahydrofuran
- Alkali metals - Sodium, Potassium, Lithium
- Dinitro - and trinitro - compounds - Picric Acid
- Carbonyl compounds
- Isocyanates
- Perchlorate crystal formers - Perchloric Acid

CONTACT EH&S to make a definitive hazardous waste determination. Assume that all chemical wastes are hazardous until a definitive determination can be made. This includes low concentration wastes or chemicals where you are unsure of the properties.

If you have any questions, contact EH&S for assistance on the Service Request Line at 829-3301.

Toxic - A USEPA specified select group of eight (8) heavy metals, ten (10) pesticides, and twenty-two (22) organic chemicals are classified as hazardous due to their toxicity characteristics (Appendix A). Any detectable amount of these chemicals must be identified on the Hazardous Waste label (Section 5.2).

In addition, wastes that exhibit the following toxicity are considered hazardous wastes:

- An acute oral LD50 less than 5,000 mg/kg
- An acute dermal LD50 less than 4,300 mg/kg
- An acute inhalation LC50 less than 10,000 ppm as a gas or vapor
- An acute aquatic 96-hour LC50 less than 500 mg/l
- Wastes that pose a hazard to human health or environment because of its carcinogenicity (carcinogen, mutagen, teratogen), acute toxicity, chronic toxicity, bioaccumulative properties, or persistence in the environment

CONTACT EH&S to make a definitive hazardous waste determination. Assume that all chemical wastes are hazardous until a definitive determination can be made. This includes low concentration wastes or chemicals where you are unsure of the properties.

If you have any questions, contact EH&S for assistance at 829-3301.

Hazardous waste regulations do not allow for the centralized storage of hazardous waste on your building floor.

Hazardous wastes must not be transported outside your laboratory by anyone other than EH&S personnel.

Hazardous waste must be transported directly from your laboratory accumulation area to the UB hazardous waste storage area on either respective campus. EH&S is responsible for and maintains these storage areas in accordance with USEPA regulations.

5.1.2 Listed Hazardous Wastes

The USEPA has promulgated a list of chemicals found in 40 CFR 260-279 that are automatically determined to be a hazardous waste. If your waste chemical is on the list, it is a hazardous waste. There are over 2000 chemicals found on this list (Appendix B). **CHECK THIS LIST FOR YOUR WASTE MATERIAL.** If it's on this list, treat it as a hazardous chemical waste. If you don't see your material on this list, determine if it meets any of the characteristics listed in Section 5.1.1, above. If your waste meets any of those characteristics, it is a hazardous chemical waste and must be handled according the instructions given in this guidebook (Section 5.2).

Acute Hazardous Wastes

Some of the wastes listed in Appendix B are on a sub-list of what the USEPA calls "acutely hazardous wastes" (also called "P-listed" wastes because their USEPA waste numbers all start with a "P" for "poison"). The acutely hazardous wastes are specifically identified in Appendix C by name. Wastes containing these chemicals are limited to one total quart per accumulation area [your laboratory] (Section 5.2).

5.2 Satellite Accumulation of Hazardous Waste

Eight Golden Rules of Hazardous Chemical Waste Accumulation:

1. Put the "Hazardous Waste" label on the container as soon as hazardous waste is first added
2. Keep the waste container closed, except when adding waste
3. Store all liquid containers in secondary containment
4. Segregate containers, keeping incompatible wastes, radioactive wastes, and regulated medical wastes separate
5. Inspect waste accumulation areas weekly
6. If you accumulate more than 55 gallons of hazardous waste or 1 pound of acutely hazardous waste in a satellite accumulation area, all waste **MUST BE REMOVED** from accumulation area within 3 DAYS
7. For chemical hazardous waste, complete the chemical waste Pickup Request Form and fax to EH&S. Forms are available at the EH&S website (ehs.buffalo.edu)
8. For regulated medical waste pickup, check with your individual department or call UB Procurement Services at 645-2676 for the latest approved contractor

Hazardous Waste Label:

Label container as soon as waste is first added

REFER TO LABELING INSTRUCTIONS ON REVERSE SIDE
HAZARDOUS WASTE
FEDERAL AND STATE LAWS PROHIBIT IMPROPER DISPOSAL

Contents/Chemical Name (No Abbreviations or Symbols)	Volume(L)
No Formulas	

Physical State: ☐ Solid ☐ Liquid ☐ Gas

Hazard Category: ☐ Corrosive ☐ Flammable ☐ Irritant ☐ Oxidizer ☐ Poisonous ☐ Reactive ☐ Volatile

Container Start Date: _____ DATE WHEN FULL: _____

Generator: _____
Building: _____
Room: _____

IF FOUND, CONTACT: EH&S @ (716) 829-3301
University at Buffalo State University of New York

DO NOT use chemical symbols, abbreviations, and/or formulas as a means of identification

➔ Hazardous waste labels are available upon request from EH&S

DO NOT leave waste containers open!

**5.2.1 Accumulation Areas**

Generators may accumulate up to a total of 55 gallons of hazardous waste, or a total of one (1) quart of acutely hazardous waste, at or near the point of generation [your laboratory], provided that the waste:

- Remains under the control of the Principal Investigator or Supervisor and their assistants
- Containers are closed and in good condition
- Contents are marked on the outside of the container

5.2.2 Requirements for Hazardous Waste Containers

1. Hazardous waste containers must be labeled with a hazardous waste label as soon as waste is first added
2. Follow instructions on the back of the label to fill out. Label must be completely filled out, EXCEPT FOR THE "DATE WHEN FULL"
 - BY LAW, chemical symbols, abbreviations, and/or formulas are not permitted as a means of identification
 - Do not omit the cation or anion name for aqueous solutions of salts
 - Do not use "Exp. #...." as a means of identification
3. Hazardous waste containers must be compatible with their contents (Section 5.2.3)
 - Do not store corrosive wastes in metal containers
 - Do not store waste hydrofluoric acid in glass containers
 - Do not store waste organic solvents in plastic containers
4. Hazardous waste containers must be kept closed, except when waste is added. Use a container with a flat bottom. Most common problems found with containers:
 - The funnel is left in open container
 - An open container is left in fume hood
 - DO NOT USE stoppers or corks! Use a screw-top lid
5. Hazardous waste containers must be leak-proof and free of exterior contamination
6. Wipe down containers prior to requesting pickup by EH&S (Section 5.2.4)

7. Hazardous waste containers should be in secondary containment

- Secondary containment can be any container or tray that will hold 110% of the volume of the largest waste container stored within the secondary containment, and should be compatible with the hazardous waste
- Secondary containment will hold any waste chemical spills or leaks from the waste containers within it
- Secondary containment also is used to segregate hazardous wastes that are incompatible, such as waste acids and bases
- Lab trays and dishpans are frequently used for secondary containment in laboratories



Example of Secondary Containment - Note properly labeled container

5.2.3 Segregation of Hazardous Wastes

1. Chemical hazardous wastes must be segregated (stored separately) from incompatible chemical wastes, radioactive wastes, and regulated medical wastes
2. Chemical wastes should be accumulated and segregated by the following general groupings:
 - **Mineral (Inorganic) Acids** - Examples: hydrochloric acid, sulfuric acid, phosphoric acid, boric acid, and hydrobromic acid
 - **Oxidizers** - Examples: bromic acid, perchloric acid, chromic acid, nitric acid, many perchlorates, permanganates, bromine, chlorine, fluorine, silver nitrate
 - Oxidizers should not be stored directly on wooden shelves or on paper shelf liners, spills may react and ignite spontaneously
 - Perchloric acid presents special hazards; it must be isolated from oxidizable materials and dehydrating agents

- Hypochlorite solutions (e.g., bleach) are oxidizers; however, they will release chlorine gas on contact with acids, so store them separately
- **Bases/Caustics** - Examples: aqueous ammonia, ammonium hydroxide, potassium hydroxide, and sodium hydroxide
- **Flammable Non-Halogenated Organic Solvents** - Examples: acetone, methanol, isopropyl ether, benzene, and tetrahydrofuran. If space is limited, laboratories may wish to store these flammable organic waste solvents in flammable storage cabinets
- **Halogenated Organic Solvents** - methylene chloride, carbon tetrachloride, tribromoethane
- **Organic Acids** – acetic acid, butyric acid
- **Highly Toxic/Carcinogenic** - Examples: formalin/formaldehyde, ethidium bromide (Section 5.3.5), sodium azide, acrolein, arsenic pentoxide, pentachlorophenol, hydrazine, botulinum toxin, acrylamide, methyl isocyanate, phorbol esters
- **Mercury/Mercury Compounds**
- **General "Dry" Lab Chemicals** - Examples: This would include many of the relatively innocuous or unreactive solid materials commonly found in laboratories
- **Gases** –Segregate waste compressed gases according to hazard class.
 - Acutely toxic and toxic gases should be stored in gas cabinets or fume hoods
 - Cylinders should be chained or strapped to a substantial, fixed surface
 - Cylinders should be turned off at the cylinder valve when not in use and should be capped when stored
 - Compressed gas cylinders can corrode or degrade over time and should be returned to the manufacturer if they are no longer being used. This will remove any potential hazard and save the demurrage charge, which can exceed the cost of the gas over time
 - Do not use lecture bottles if other cylinders are available! Waste lecture bottles are very difficult and costly to dispose of and they use universal threads and valves (some of which are interchangeable). Attempt to return waste lecture bottle cylinders directly to the manufacturer

- **Water/Air Reactives** - Examples: sodium, potassium, calcium, aluminum tribromide, calcium oxide, acid anhydrides, metal hydrides, alkyl phosphines
- **Pyrophoric Materials** - Examples: diethyl aluminum chloride, lithium, white or yellow phosphorus, trimethylaluminum
- **Oils** – Used pump oil with organic or inorganic contaminants
- **Photographic Waste**
- **Spray Cans**

5.2.4 Pickup for Full Waste Containers

When hazardous waste containers in laboratory satellite accumulation areas are no more than 90% full:

1. Complete DATE WHEN FULL on hazardous waste label
2. Complete the "Request For Hazardous Waste Disposal" form from the EH&S website (ehs.buffalo.edu) and fax to the number listed on the form
 - The first page of the form is for listing generator information, hazardous wastes, etc.
 - The second page has the instructions for completing the form

5.2.5 Weekly Inspection of Accumulation Areas

All satellite accumulation areas should be inspected weekly. An example of a typical inspection form is given in Appendix D. Weekly inspections should be documented on a form like this and records of these inspections must be kept in each lab that accumulates waste for a duration of three (3) years.

5.3 Other Waste Requirements

5.3.1 Drain Disposal Guidance for Laboratory Wastes

The ONLY aqueous solutions in normal laboratory volumes (<1 gallon) that may be drain disposed must have a pH between 5 and 9 and DO NOT CONTAIN:

Even if a chemical is not a “hazardous waste” by the USEPA definition or listing, wastewater discharge permits do not allow hazardous chemicals down the sink or other drains.

- Carcinogens
- Toxic chemicals
- Heavy metals (e.g., arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, etc.)
- Cyanides or sulfides
- Organic solvents (whether miscible or not)
- Viable infectious agents
- Radioactive substances

EXAMPLES

Acceptable for Drain Disposal:

- Ethanol concentrations of 24% or less
- Physiological saline, inorganic buffers (phosphate or bicarbonate based), TRIS, or other such organic buffers at use concentrations, sugar solutions, and non-toxic salts in dilute form
- Liquid blood, serum, or plasma from animals or humans not known to contain pathogenic organisms
- Liquid blood, serum or plasma known or suspected of containing pathogenic organisms may be drain disposed after appropriate and verifiable disinfection or sterilization.
- Liquid tissue culture media, fresh or spent supernatant, which has been rendered non-infectious, including culture media containing serum additives such as fetal calf serum
- Solutions containing disinfectants at used concentrations, such as 0.5 % bleach, may also be drained disposed
- NOTE: UNDILUTED DISINFECTANTS OR STERILANTS MAY NOT BE POURED DOWN THE DRAIN. Containerize for proper disposal

Do Not Drain Dispose, But Containerize as Hazardous Waste:

- Aqueous phases of organic solvent separations
- Miscible water solvent mixtures, e.g., acetone/water
- Aqueous mixtures with alcohols (methanol, ethanol greater than 24%, etc.)
- Histological preparation materials (Formalin, staining solutions, Xylene containing clearing agents)
- Ethidium bromide solutions (Section 5.3.5)

Note: Gels (agar, electrophoresis plates, and gelatin) that contain hazardous substances of biological, chemical or radiological nature must be containerized and disposed of as hazardous waste. If they do not contain hazardous substances, they do not need to be containerized, but they should not be disposed of through the drain system. They could clog and stop the drain. In addition they can provide a coating on the pipes that will allow bacterial growth and subsequent colonization of "drain flies" that are very difficult to eradicate.

5.3.2 Biohazardous Wastes

Detailed information on Regulated Medical Wastes may be found on the New York State Department of Health website and on the EH&S website under "Biological Safety".

New York State regulates the disposal of materials that have the potential to cause infectious disease in humans as Regulated Medical Waste (RMW):

- Red RMW bags NEVER go in the general trash, whether autoclaved in-house or not
- Under New York State law, all syringes/sharps must be treated as if they are RMW, even if they have not been in contact with infectious material

Proper disposal of such waste is the Department or Principal Investigator's responsibility. For the preferred University contractor, check with your individual department or call UB Procurement Services at 645-2676. Retain copies of manifests, shipping documents provided by vendor for 3 years.

5.3.3 Radioactive Wastes

The *Guide to Radioactive Waste Management* (available on the EH&S Web Site) provides more information on proper disposal methods and waste minimization techniques.

All waste contaminated with radioactive material must be described in written protocols, approved by EH&S, under the PI's radioactive materials authorization. For disposal of radioactive waste:

- Store the waste in containers provided by EH&S.
- Complete the "Request for Radioactive Waste Disposal" form RW-50 from the EH&S website (ehs.buffalo.edu) and fax to the EH&S Radiation Safety Division at 829-2029.

If you have any questions, contact the Radiation Safety Division of EH&S for assistance at 829-3281.

5.3.4 Mixed Wastes (Chemical, Biohazardous, Radioactive)

Mixed Infectious/Chemical Waste

Whenever possible, disinfect infectious waste at the source of generation. Contact EH&S at the Service Request Line 829-3301 for approved methods of disinfection.

Sharps and piercing objects contaminated with both chemicals and infectious agents are handled separately from those contaminated with chemicals only. Since they will create both a physical hazard and contamination problems if placed in regular waste bags, dispose of mixed waste sharps and piercing objects in a specially designed rigid, polyethylene sharps container.

Containers and Storage: Collect non-sharps infectious waste which is also contaminated with chemicals (mixed waste) in a red biohazard bag. After the infectious agent has been disinfected, place the red biohazard bag in a second, clear plastic bag. Add absorbent material (such as diatomaceous earth) to the second bag, sufficient to absorb fluids which may leach from the waste.

Seal and attach a completed hazardous waste label (Section 5.2.2) to the clear bag. On the "Contents" section of the tag it is important to note both the chemical waste and the infectious waste and the disinfection method that was used.

Sharps containers must not contain free liquids (such as full syringes). When the sharps container is full; seal and remove it from the collection area. Place the container in a clear plastic bag and seal it. Attach a hazardous waste label (Section 5.2.2) and list all chemical and infectious agents and the method of deactivation/disinfection used. For pickup, please contact EH&S office for specific instructions at 829-3301.



Example Sharps Container

Notes on Mixed Waste

The creation of mixed waste that contains toxic or corrosive materials, transuranic elements, or high levels of radioactivity is strongly discouraged. Whenever possible, avoid using hazardous chemicals and radioisotopes in combination.

Contact EH&S at 829-3301 for recommended non-hazardous chemical substitutes and ideas for minimizing the generation of mixed wastes.

Mixed Radioactive/Chemical Waste

A hazardous chemical waste, as defined by the USEPA, combined with a radioactive waste, as defined by the NYS Department of Health, is classified as mixed waste. This type of waste is initially treated as radioactive waste. The requirements listed in section 5.3.3 apply to any mixed radioactive/chemical waste. If the radioactive component of the waste has a half-life less than 90 days, then EH&S will decay store the waste and eventually dispose of the material as chemical waste. When the radioactive component of the mixed waste has a half-life greater than 90 days, the waste is much more expensive to dispose of than separate hazardous chemical or radioactive waste.

Used liquid scintillation fluid may or may not be considered a special type of mixed waste. In either case, the waste must be segregated and provided to EH&S for disposal.

5.3.5 Ethidium Bromide

Concentrated stock solutions and gels that have not been destained must be handled as a hazardous waste (Section 5.2). The destained rinsate can be placed down the sink and destained gels into the trash (DO NOT PUT GELS DOWN THE SINK DRAIN, Section 5.3.1). Researchers concerned about discarding gels or solutions with questionable amounts of ethidium bromide should handle them as hazardous wastes. If a lab chooses to decontaminate their ethidium bromide, the filter and/or resin beads must be handled as a hazardous waste.

5.3.6 Photographic and X-ray Fixer Waste

Fixers contain some silver which must be treated or recovered before it can be disposed of. There are two options available for this material:

- Recycling: Have a commercial company service your photographic needs. This service typically includes stocking your developer and fixer and removing your waste
- Put hazardous waste labels on the containers (Section 5.2.2), complete the Request for Disposal form (Section 5.2.4) and fax to EH&S for pickup

5.3.7 Aerosol Spray Cans

Waste aerosol spray cans still containing product are considered hazardous waste and must be disposed of through EH&S.

- Place a completed hazardous waste label on the spray can (Section 5.2.2)
- Complete Request for Disposal form and fax to EH&S (Section 5.2.4)

If you have questions on disposal of specialty wastes, contact EH&S for assistance at 829-3301.

5.3.8 Battery Recycling

As part of the University at Buffalo's overall commitment to environmental stewardship, UB Environment, Health and Safety administers a program to collect and recycle various types of batteries that are generated on campus. By recycling these batteries, we can protect our environment and save resources.



Example of an **alkaline** and **carbon zinc battery** recycling receptacle pail.



Example of a recycling box for **rechargeable batteries**.

Alternatively, you may recycle these types of batteries at one of the local area electronic, office supply or other stores that provide this service.

Common alkaline or carbon zinc batteries (size AAA, AA, C, D, etc.) are collected in specially designated pails (as shown on the left). Alkaline or carbon zinc 9-volt batteries must be placed separately in plastic bags or have their terminals taped with non-conductive tape before placing them in the pails.

Other types of batteries such as rechargeable nickel cadmium (NiCad), nickel metal hydride (Ni-MH), lithium ion, or silver button and sealed lead acid, etc. can contain toxic and hazardous materials (such as mercury, lead, cadmium, silver, sulfuric acid, etc.). The US EPA has designated these kinds of batteries as "universal waste" rather than hazardous waste with the goal of promoting recycling. Although not strictly hazardous wastes, these batteries must still be managed in an environmentally correct manner and are collected in special recycling boxes (as shown on the left). *They cannot be placed in the regular trash!*

Visit the EH&S website (ehs.buffalo.edu) for information on up-to-date procedures and locations of battery recycling containers.

5.3.9 Reagents Used in Biological Procedures

The following are reagents that contain mercury and should be managed as hazardous wastes:

Dobbin's Reagent, Hayem's Solution, Hopkins-Cole Reagent, Hubb's Reagent, Jacquemart's Reagent, Knapp's Solution, Mercresin, Meyer's Solution, Millon's Reagent, Morell's Solution, Nessler's Reagent, Rohrbach's Solution, Sachsse's Solution, Spiegler's Reagent, Tanret's Reagent and Tyrosine Reagents

Other hazardous reagents include:

- Erlicki's Solution (chromium)
- Fisher's Reagent (phenyl hydrazine)
- Flemming's Solution (osmium, chromic acid)
- Folin-Dennis Solution (mercuric cyanide)

5.3.10 Broken Glass

Broken glassware should be placed into an appropriate broken glassware container. This would consist at a minimum of a hard sided container such as a cardboard box. The container must be sealed and taped shut to prevent injury. Since they will be picked up by the custodial staff these containers should be labeled with the words "Broken Glass." Do not place broken glassware, pipettes or other sharp-edged materials of any type into the regular trash.



REFER TO LABELING INSTRUCTIONS ON REVERSE SIDE

HAZARDOUS WASTE

FEDERAL AND STATE LAWS PROHIBIT IMPROPER HANDLING OF HAZARDOUS WASTE

Contents (Chemical Name) Abbreviations or Symbols) CAS# (Chemical Abstracts) Volume(s)

Physical State

☐ Solid ☐ Liquid ☐ Gas

Hazardous Categories *Mark with an X*

☐ Corrosive ☐ Flammable Liquid ☐ Toxic ☐ Volatile

☐ Toxic/Poisonous ☐ Corrosive ☐ Pyrophoric ☐ Water Reactive

☐ Irritant ☐ Other

Container Size: _____ DATE WHEN USED: _____

Generator: _____

Building: _____ Dept.: _____

Room: _____

IF FOLLOWS: _____

UNIVERSITY at Buffalo The State University of New York

- All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container (e.g., pouring, pumping, and aspirating) AND it does not contain acutely hazardous waste (Appendix C)
- If the waste container held acutely hazardous waste, the container **MUST** be triple rinsed using a solvent capable of removing the residual chemical product before disposing of the container:

- The solvent can be water or any liquid that will remove the hazardous residue in the container
- Make sure you collect wash solvent and add to a compatible hazardous waste accumulation container in the lab

- Remove the label
- Completely deface the label with a marker
- Tape over the label
- Place a UB "RCRA Empty" label over the original label:

RCRA EMPTY

This container meets the requirement of 40 CFR 261.7 for empty. The contents have been removed using practices commonly employed to remove materials from this container. In addition, if this container held acutely hazardous waste, then it has been triple rinsed using a solvent capable of removing the residual chemical product. The wash liquids have been separately containerized for proper disposal.

I certify that this container meets the requirements of RCRA Empty detailed above and understand that there are legal penalties for improper disposal of hazardous waste containers that are not empty.

Generator (Signature):

Building:

Dept.:	
--------	--

Room:

Dept.:	
Phone:	

University at Buffalo The State University of New York

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5.5 Waste Minimization

Although it may seem less expensive to buy chemicals in larger quantities, it can be more expensive, when the cost for disposal is taken into consideration. Some chemical manufacturers sell chemicals in smaller containers to help laboratories reduce the excess purchase of chemicals.

When disposal costs are considered, it is more economical to purchase only the quantities of chemicals that will be used.

Effective hazardous waste management requires not only safe, sound practices, but also requires good efforts to reduce the volume and toxicity of hazardous wastes. UB's waste minimization efforts must also be reported annually to NYSDEC. Waste minimization efforts reduce disposal, hazards, and environmental impact associated with chemical wastes. The success in minimizing hazardous wastes depends on a conscientious effort by each individual at the University. The following are some common waste minimization strategies.

5.5.1 Source Reduction

The most desirable method of waste minimization is source reduction. This is any activity that reduces or eliminates the generation of chemical hazardous waste at the source. This can be accomplished by good material management, substitution of less hazardous materials and good laboratory procedures. Examples include:

Reducing Chemical Purchases: A substantial portion of hazardous waste produced at the University consists of unused, outdated chemicals. Careful planning of quantities of chemicals required can reduce costs to the laboratory and reduce waste volumes. Many chemicals may also degrade over time, so careful consideration of quantities purchased is important to reducing potential waste. Also, risk of accident and exposure to these chemicals and space allocations are less when handling smaller volumes of materials.

- Teaching labs should consider the use of microscale experiments
- Teaching labs should use demonstrations or video presentations as a substitute for some student experiments that generate chemical wastes
- Teaching labs should use pre-weighed or pre-measured reagent packets where waste generation is high

Substitution: A non-hazardous chemical can often be used in place of a hazardous chemical. For example, some academic laboratory procedures still specify benzene or carbon tetrachloride as reagents or solvents. These compounds often can be replaced by less hazardous materials. This results not only in safer procedures, but also in wastes that may be less hazardous in some respects. Additionally, many commercial, non-hazardous glass cleaners are available in lieu of toxic and corrosive chromic acid. Similarly, different procedures

may be available which do not require the use of hazardous chemicals.

- Evaluate procedures to see if a less hazardous or non-hazardous reagent could be used
- Avoid the use of reagents containing: arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver

For many laboratory methods, environmentally sound alternatives exist:

If You Use:	Substitute:
Xylene-, benzene- and toluene-containing reagents in histology laboratories	Citric acid-based reagents (e.g., AmeriClear or Limonene-based extract)
Standard xylene- or toluene-based cocktails in radioactive tracer studies	Non-hazardous proprietary liquid scintillation cocktails; call Radiation Protection Services at EH&S at 829-3281 for information.
Solvent based inks in printing operations	Soy based inks
Formaldehyde	Peracetic acid or ethanol
Mercury thermometers	Non-mercury thermometers
If You Use:	Substitute:
Solvent extraction	Solid phase or supercritical fluid extraction
Carbon tetrachloride	Cyclohexane
Sulfuric acid/ potassium dichromate (chromerge) cleaning solutions	• Detergents and enzymatic cleaners • Ultrasonic baths (these work well for many labs) • Alconox or similar detergents • Pierce RBS-35 or similar detergents • Biodegradable surfactants • Potassium persulfate/sulfuric acid (sold commercially as No-Chromix) • Aqua regia (mixture of hydrochloric and nitric acids) • Potassium hydroxide/ethanol solutions (also flammable) • Dilute hydrochloric acid.
Ethidium bromide	New filtration product to concentrate solvent waste 10 times
Phosphate chloride detergents for lab glass washing	Non-phosphate, non-chloride detergents

SEARCH FOR A SAFER SUBSTITUTE. Let us know if you find any not mentioned here!

Call EH&S at 829-3301.

Chemical Exchange/Redistribution: Chemical purchases can often be reduced by borrowing and sharing chemicals between laboratories. Departments are encouraged to exchange chemicals whenever possible, rather than dispose of virgin chemicals as wastes. Many of these chemicals are only partially used, have not exceeded their shelf life, and have not been altered in anyway. Others are unused and still in the original sealed container. In some cases, these chemicals can be used by someone else at the University.

- Centralize purchasing of chemicals through one person in the department or laboratory
- Date chemical containers when received so that older ones will be used first
- Keep MSDSs for chemicals on file
- Inventory chemicals and identify their location at least once a year
- Update inventory when chemicals are purchased or used up
- Purchase chemicals in the smallest quantities needed
- Label all chemical containers to prevent the generation of unknowns

“Less Is Better” Publication: The American Chemical Society has a laboratory waste minimization publication entitled, "Less is Better." This web document (available on the EH&S website) presents more details on laboratory chemical waste minimization strategies outlined in this section.

5.5.2 Recycling

The second most desirable approach is recycling. When a waste material is used for another purpose, treated and reused in the same process, or reclaimed for another process, this is called recycling. The following are examples:

- When solvent is used for cleaning purposes, use contaminated solvent for initial cleaning and fresh solvent for final cleaning.
- Recover, redistill, and reuse your organic solvents whenever possible
- Purchase compressed gas cylinders (including lecture bottles) only from manufacturers who will accept the return of partially full or empty cylinders.
- Have a silver recovery unit installed in the darkroom. The unit removes the silver to be recycled.
- Do not contaminate used oil with solvents because this prevents the oil from being recycled.

5.5.3 Process Modification

The third basic way to minimize waste is to modify processes, where practical. To the extent that it DOES not affect vital research or teaching, modify experiments to decrease the quantity of hazardous chemicals used and generated. Microanalysis techniques can greatly reduce the amount of waste generated. An example of this is the use of microscale chemistry in entry-level teaching laboratories. Also, new equipment can reduce the amount waste generated. For example, new high performance liquid chromatography (HPLC) machines use microprocessors to reduce the amount of waste generated. Contact peers or professional organizations for the latest pollution prevention techniques.

Quick Reference Chemical Spill Emergency Procedures:

Evacuate - Leave the spill area; alert others in the area and direct/assist them in leaving.

Confine - Close doors and isolate the area. Prevent people from entering spill area.

Report - From a safe place, call one of the emergency contacts shown in the box below.

Secure - Until emergency response personnel arrive: block off the areas leading to the spill, lock doors, post signs and warning tape, and alert others of the spill.

5.6 Emergency and Spill Response

The EH&S or Fire Department HazMat Team will clean up or stabilize spills which are considered high hazard (fire, health, or reactivity hazard). In the case of a small spill and low hazard situation, EH&S will advise you on what precautions and protective equipment to use.

If you have any doubt about whether a spill can be safely and effectively cleaned up by staff in the lab, call one of the emergency contact numbers listed in the box to the left.

5.6.1 Chemical Spill Emergency Procedures

The following steps should be taken in the event of a chemical spill:

Evacuate

1. **Remove People From The Area:** As you leave an area involved in a chemical spill, assist people exiting the area. Never enter a chemical spill area where you may place your health in jeopardy – Call one of the emergency contact numbers listed in the box to the left.

- a) Evacuate personnel from the spill area and close doors
- b) If safe to do so, shut off electrical equipment as you leave the area
- c) Direct personnel to nearest fire exit. Do not use elevators

Caution: Just as you are not to re-enter a burning building, DO NOT go back in to an area where a chemical spill has occurred! In many documented cases, rescuers not wearing proper protective equipment have been overcome by toxic or asphyxiating vapors trying to rescue other victims and died as a result.

Do not make this mistake!

Contacts for Police, Fire, Suspicious Behavior or Medical Emergencies

For North & South Campuses	Call: 645-2222 (UB Police)
For the Center of Excellence	Call: 845-3333 (Roswell Security)
For the CTRC	Call: 859-7911 (Kaleida Security)
For All Other Off Campus UB Locations	Call 911 (Buffalo Police)

- d) Attend to victims
 - e) Alert neighbors
2. **First aid:** Remove victims from spill area to fresh air, but do not endanger your own life by entering areas with toxic gases

- a) Immediately remove contaminated clothing
- b) Flush skin or eyes with running water for 15 minutes
- c) Get medical attention for victims
- d) Chemicals spills over large body areas:

Caution: Flush skin and/or eyes with running water for at least 15 minutes.

You may not feel any immediate effect from chemical spills, but it is very important to wash quickly and thoroughly because contact with many chemicals can cause severe tissue damage that is not apparent until hours later.

- Remove contaminated clothing while under shower
- Flush affected body area with water for at least 15 minutes
- Resume water wash if pain returns
- Wash off chemicals with mild detergent and water; do not use neutralizing chemicals, unguents, creams, lotions or salves
- Get immediate medical help
- Make sure medical personnel understand exactly what chemicals are involved

e) Victims of Bromine spills

- Flush with cold water; apply compress saturated with a dilute sodium thiosulfate solution
- Get immediate medical help

f) Victims of Hydrogen Fluoride (HF) spills

- Flush with cool water until any whitening of tissue disappears
- Swath injured area with soaking wet, iced cloths
- If calcium gluconate cream or salve is available, wash skin with running water for five minutes, then cover area with cream
- Get immediate medical help

Confine

1. Close fire doors
2. Isolate the area
3. Establish exhaust ventilation, if possible
4. Vent vapors only to outside of building
5. Open windows, if possible, without exposing yourself to vapors
6. If vapors or gases are in a room which is not vented to outside of building, close off the room

Report

1. Call one of the emergency contact numbers listed in the box to the left for all chemical spills that:

Contacts for Police, Fire, Suspicious Behavior or Medical Emergencies	
For North & South Campuses	Call: 645-2222 (UB Police)
For the Center of Excellence	Call: 845-3333 (Roswell Security)
For the CTRC	Call: 859-7911 (Kaleida Security)
For All Other Off Campus UB Locations	Call 911 (Buffalo Police)

- a) Involve injury requiring medical treatment
 - b) Involve fire or explosion hazards
 - c) Are potentially life threatening
 - d) Are larger than one liter or cover a large area
2. The type of information you will need to provide when you call one of the emergency contacts consists of the following:
 - a) State that this is an emergency
 - b) Give your name, telephone number, and location
 - c) Tell the location of the incident
 - d) Tell the time and type of incident
 - e) Give the name and quantity of material involved
 - f) Provide the extent of injuries, if any
 - g) Explain the possible hazards to human health or the environment
 - h) Warn emergency responders of any other hazards they may encounter, such as large quantities of stored chemicals (particularly flammables, oxidizers and air-borne toxic or irritant materials), radioactive materials, biohazards, mechanical hazards, etc. Outline the safest route to approach the spill

Secure

Until emergency responders arrive on the scene, you and your staff will need to block off entrances to the spill location and prevent people from entering the contaminated area.

1. Lock doors leading to the chemical spill (while keeping keys handy for emergency personnel) and post signs on doors warning of the spill
2. Tape or rope off stairwells, corridors, and elevators leading to the spill and hang signs on the tape
3. Post staff by commonly used entrances to the spill location, so they can warn people to use other routes

Clean Up

Every laboratory or suite of laboratories (interconnected labs that do not require walking in a hallway to get to) should have access to a

fully-stocked spill kit to aid in the containment and cleanup of chemical spills. Spill kits at the minimum should contain the following:

- 1 5-gallon plastic pail
- 1 pair of neoprene gloves
- 2 disposable plastic trash bags
- 2 cable ties (for sealing the trash bags)
- 1 pair of latex booties
- 1 Tyvek coverall, size XXXL
- 10 universal absorbent pads
- 1 pair of chemical splash goggles

Spill kits are available for a nominal fee through EH&S. Call 829-3301 for further information.

The following are general guidelines for spill cleanup:

1. EH&S and/or the Fire Department HazMat Team will clean up or stabilize spills which are considered a high hazard (fire, health or reactivity hazard).
2. You should clean up low hazard spills for which you have proper training and proper protective equipment. In general, small spills should be absorbed, neutralized, and collected immediately. Consult the MSDS for specific instructions on spill response. The instructions below are general guidelines only and may need to be modified to safely handle the spill.
 - a) Liquids should be covered with spill universal absorbent pads, vermiculite or equivalent absorbent to contain and absorb the material. DO NOT use a combustible absorbent for cleaning up oxidizer spills! Absorb all liquid in the pads or absorbent and put the absorbent into a heavy-walled plastic trash bag or other suitable container and seal. Put the plastic bag or container in a second plastic bag or the 5-gallon pail that is part of the spill kit and seal. Treat the contents as a hazardous waste and follow the procedures in Section 5.2.2 and 5.2.4.
 - b) Solids should be carefully pushed with absorbent pads or swept into a pile and transferred to a plastic trash bag or other suitable container and sealed. Put the plastic bag or container in a second plastic bag or the 5-gallon pail that is part of the spill kit and seal. Treat the contents as a hazardous waste and follow the procedures in Section 5.2.2 and 5.2.4.
 - c) Decontamination of the spill area with a mild soap solution or sodium bicarbonate (for acid neutralization) may also be necessary. Questions regarding procedures can be directed to EH&S at 829-3301.

Management of Materials from Spill Cleanup:

Materials that are generated as a result of spill cleanup are considered to be hazardous waste if the original material when disposed of would be a hazardous waste. These materials must be placed into appropriate sealed containers and must be managed as any other hazardous waste (Section 5.2).

If you have any doubt about whether a spill can be safely and effectively cleaned up by staff in the lab, call the University Police at 645-2222 immediately.

An emergency condition is any SPILL, LEAK, FIRE or other uncontrolled release that presents a hazard to human health or the environment.

Any person discovering an imminent or actual emergency, which is not readily controllable with the training and equipment on hand, MUST CALL THE APPROPRIATE EMERGENCY CONTACTS SHOWN BELOW:

Contacts for Police, Fire, Suspicious Behavior or Medical Emergencies	
For North & South Campuses	Call: 645-2222 (UB Police)
For the Center of Excellence	Call: 845-3333 (Roswell Security)
For the CTRC	Call: 859-7911 (Kaleida Security)
For All Other Off Campus UB Locations	Call 911 (Buffalo Police)

5.6.2 General Emergency Procedures

The following are general fire safety procedures:

- Know where the “Pull Boxes” are
- Know at least two (2) ways to get out of the building
- DO NOT use the elevator
- Close all doors behind you
- ALWAYS exit the building when the alarm is ringing
- Have a rally point or assembly area where all personnel in your lab will meet if you have to leave the building for an emergency

Follow the R.A.C.E. procedure:

- Remove anyone from danger
- Alarm: Call one of the emergency phone numbers listed in the box to the left
- Confine: Close all doors
- Extinguish or Evacuate

5.7 Training

Hazardous Waste Training (also known as RCRA Training) is required if you:

- Decide What Is a Hazardous Waste
- Add Hazardous Waste into Accumulation Containers
- Transport Waste From Accumulation Points
- Inspect Hazardous Waste Storage Areas
- Respond to Spills Involving Hazardous Wastes

Training should be for new employees and refreshed annually thereafter.

EH&S will provide RCRA Training upon request by a Department or School. The training meets all USEPA and NYSDEC hazardous waste requirements and takes about 1.5 hours to complete. Participants are required to provide their UB Person Number (on the lower left hand corner of the UB ID card) at course registration.

Hazardous Waste Management Guidebook

APPENDIX A

TOXIC HAZARDOUS WASTES

Appendix A – Toxic Hazardous Wastes

8 HEAVY METALS

ARSENIC
CADMIUM
LEAD
SELENIUM
BARIUM
CHROMIUM
MERCURY
SILVER

10 PESTICIDES

2,4-D
ENDRIN
HEPTACHLOR (& ITS EPOXIDE)
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROETHANE
LINDANE
METHOXYCHLOR
TOXAPHENE
2,4,5-TP (SILVEX)

22 ORGANIC CHEMICALS

BENZENE
CARBON TETRACHLORIDE
CHLORDANE
CHLOROBENZENE
CHLOROFORM
O-CRESOL
M-CRESOL
P-CRESOL
CRESOL
1,4-DICHLOROBENZENE
1,2-DICHLOROETHANE
1,1-DICHLOROETHYLENE
2,4-DINITROTOLUENE
METHYL ETHYL KETONE
NITROBENZENE
PENTACHLOROPHENOL
PYRIDINE
TETRACHLOROETHYLENE
TRICHLOROETHYLENE
2,4,5-TRICHLOROPHENOL
2,4,6-TRICHLOROPHENOL
VINYL CHLORIDE

Hazardous Waste Management Guidebook

APPENDIX B

TABLE OF EH&S LISTED HAZARDOUS WASTES

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	(2,4,5-Trichlorophenoxy) Acetic Acid	93-76-5	OSHA Carcinogen					
T	(2,4-Dichlorophenoxy) Acetic Acid	94-75-7	OSHA Carcinogen					
T	[1,1'-Biphenyl]-4,4'-diamine	92-87-5		U021				
T	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	91-94-1		U073				
T	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	119-90-4		U091				
T	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	119-93-7		U095				
T	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea	13909-09-6	OSHA Carcinogen					
T	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea	13010-47-4	OSHA Carcinogen					
T	1-(o-Chlorophenyl)thiourea	5344-82-1			P026			
T	1,1,1,2-Tetrachloroethane	630-20-6		U208				
T	1,1,1-Trichloro-2, -bis(p-methoxyphenyl)ethane						EH&S	
T	1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane	50-29-3	OSHA Carcinogen					
T,F	1,1,2,2-Tetrachloroethane	79-34-5	OSHA Carcinogen	U209				
T	1,1,2-Trichloroethane	79-00-5	OSHA Carcinogen	U227				
T	1,1a,2,2,3,3a,4,5,5,5a,5b,6-Dodecachlorooctahydro-1,3,4-metheno-1H-cyclobuta (cd) pentalene, Dechlorane						EH&S	
T	1,1a,3,3a,4,5,5,5a,5b,6-Decachloro--octahydro-1,2,4-metheno-2H-cyclobuta (cd) pentalen-2-one, Chlorecone						EH&S	
T	1,1-Dichloroethane	75-34-3	OSHA Carcinogen					
T	1,1-Dichloroethylene	75-35-4		U078		D029		
T	1,1-Dimethylhydrazine	57-14-7	OSHA Carcinogen	U098				
T	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4,4a,5,6,7,8,8a-octahydro-1,4-endo-endo-5,8-dimethanonaph-thalene						EH&S	
T	1,2,3-Propanetriol, trinitrate	55-63-0			P081			
T	1,2,3-Trichloropropane	96-18-4	OSHA Carcinogen					
T	1,2,4,5,6,7,8,8-Octachloro-4,7-methano-3a,4,7,7a-tetrahydro- indane						EH&S	

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	1,2,4,5-Tetrachlorobenzene	95-94-3		U207				
T	1,2:3,4-Diepoxybutane	464-53-5		U085				
T	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	117-81-7		U028				
T	1,2-Benzenedicarboxylic acid, dibutyl ester	84-74-2		U069				
T	1,2-Benzenedicarboxylic acid, diethyl ester	84-66-2		U088				
T	1,2-Benzenedicarboxylic acid, dimethyl ester	131-11-3		U102				
T	1,2-Benzenedicarboxylic acid, dioctyl ester	117-84-0		U107				
T	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-,	51-43-4			P042			
T	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts	181-07-2		U202				
T	1,2-Dibromo-3-chloropropane	96-12-8	OSHA Carcinogen	U066				
T	1,2-Dibromoethane	106-93-4	OSHA Carcinogen					
T,F	1,2-Dichloroethane	107-06-2	OSHA Carcinogen			D028		
T,F	1,2-Dichloroethylene	156-60-5		U079				
T,F	1,2-Dichloropropane	78-87-5	OSHA Carcinogen					
T,F	1,2-Diethylhydrazine	1615-80-1	OSHA Carcinogen					
T,F	1,2-Dimethylhydrazine	540-73-8	OSHA Carcinogen	U099				
T	1,2-Diphenylhydrazine	122-66-7		U109				
T	1,2-Epoxybutane	106-88-7	OSHA Carcinogen					
T	1,2-Epoxypropane	75-56-9	OSHA Carcinogen					
T	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	91-80-5		U155				
T	1,2-Oxathiolane, 2,2-dioxide	1120-71-4		U193				
T	1,2-Propylenimine	75-55-8			P067			
T	1,3,4,5,6,7,8,8-Octachloro-1,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran						EH&S	
T	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-	143-50-0		U142				
T,F	1,3,5-Trinitrobenzene	99-35-4		U234				
T	1,3,5-Trioxane, 2,4,6-trimethyl-	123-63-7		U182				

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	1,3-Benzenediol	108-46-3		U201				
T	1,3-Benzodioxol-4-ol, 2,2-dimethyl-,	22961-82-6		U364				
T	1,3-Benzodioxol-4-ol, 2,2-dimethyl-,methyl carbamate.	22781-23-3		U278				
T	1,3-Benzodioxole, 5-(1-propenyl)-	120-58-1		U141				
T	1,3-Benzodioxole, 5-(2-propenyl)-	94-59-7		U203				
T	1,3-Benzodioxole, 5-propyl-	94-58-6		U090				
T	1,3-Butadiene [1910.1051]	106-99-0	OSHA Carcinogen					
T	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	87-68-3		U128				
T	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	77-47-4		U130				
T	1,3-Dichloropropene	542-75-6						
T	1,3-Dichloropropene (technical grade)	542-75-6	OSHA Carcinogen	U084				
T	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino)-carbonyl]oxime.	26419-73-8			P185			
T	1,3-Isobenzofurandione	85-44-9		U190				
T	1,3-Pentadiene	504-60-9		U186				
T	1,3-Propane Sultone	1120-71-4	OSHA Carcinogen	U193				
T	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8 abeta)-	309-00-2			P004			
T	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8ab eta)-	465-73-6			P060			
T	1,4,5,8-Tetraamino-9,10-anthracenedione	2475-45-8	OSHA Carcinogen					
T	1,4-Benzoquinone						EH&S	
T	1,4-Butanediol Dimethylsulfonate	55-98-1	OSHA Carcinogen					
T	1,4-Dichloro-2-butene	764-41-0	OSHA Carcinogen	U074				
T	1,4-Dichloro-2-butene	764-41-0						
T	1,4-Dichlorobenzene	106-46-7	OSHA Carcinogen					
T,F	1,4-Dichlorobenzene	106-46-7				D027		

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	1,4-Diethyleneoxide	23-91-1		U108				
T,F	1,4-Dioxane	123-91-1	OSHA Carcinogen	U108				
T	1,4-Dioxane-d8	17647-74-4	OSHA Carcinogen					
T	1,4-Naphthalenedione	130-15-4		U166				
T	1,4-Naphthoquinone	130-15-4		U166				
T	1,6-Dinitropyrene	42397-64-8	OSHA Carcinogen					
T	1,8-Dihydroxyanthraquinone	117-10-2	OSHA Carcinogen					
T	1,8-Dinitropyrene	42397-65-9	OSHA Carcinogen					
T	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone	555-84-0	OSHA Carcinogen					
T	1-Acetyl-2-thiourea	591-08-2			P002			
T	1-Amino-2,4-dibromoanthraquinone	81-49-2	OSHA Carcinogen					
T	1-Amino-2-methylantraquinone	82-28-0	OSHA Carcinogen					
T	1-Butanamine, N-butyl-N-nitroso-	924-16-3		U172				
T,F	1-Butanol	71-36-3		U031				
T	1-Chloro-2,3-epoxy-propane	106-89-8	OSHA Carcinogen					
T	1-Chloro-2-methylpropene	513-37-1	OSHA Carcinogen					
T	1-Chloro-4-nitrobenzene	100-00-5	OSHA Carcinogen					
T	1H-1,2,4-Triazol-3-amine	61-82-5		U011				
T	1-Methylbutadiene	504-60-9		U186				
T	1-NA						EH&S	
T	1-Naphthalenamine	134-32-7		U167				
T	1-Naphthalenol, methylcarbamate.	63-25-2		U279				
T	1-Nitropyrene	5522-43-0	OSHA Carcinogen					
T	1-Propanamine	107-10-8		U194				
T	1-Propanamine, N-nitroso-N-propyl-	621-64-7		U111				
T	1-Propanamine, N-propyl- (I)	142-84-7		U110				
T	1-Propanol, 2,3-dibromo-, phosphate (3:1)	126-72-7		U235				
T,F	1-Propanol, 2-methyl-	78-83-1		U140				

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	1-Propene, 1,1,2,3,3,3-hexachloro-	1888-71-7		U243				
T	1-Propene, 1,3-dichloro-	542-75-6		U084				
T	2-NA						EH&S	
T	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570-75-0	OSHA Carcinogen					
T	2-(Diethoxyphosphinylimino)-1,3-dithio-lane						EH&S	
T	2,2'-Bioxirane	1464-53-5		U085				
T	2,2-bis(Bromomethyl)-1,3-propandiol	3296-90-0	OSHA Carcinogen					
T	2,2-bis(Bromomethyl)propane-1,3-diol	3296-90-0	OSHA Carcinogen					
T	2,2'-Dichlorodiethylsulfide	505-60-2	OSHA Carcinogen					
T,F	2,3,4,6-Tetrachlorophenol	58-90-2		F027				
T	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	OSHA Carcinogen					
T	2,3-Dibromo-1-propanol	96-13-9	OSHA Carcinogen					
T	2,3-Dibromopropan-1-ol	96-13-9	OSHA Carcinogen					
T	2,3-Dihydro-2,2-dimethyl-7-benzofuranylmethylcarbamate						EH&S	
T	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	66-75-1		U237				
T	2,4,5-T	93-76-5	OSHA Carcinogen	F027				
T	2,4,5-Trichlorophenol	95-95-4	OSHA Carcinogen	F027				
T	2,4,5-Trichlorophenoxyacetic acid						EH&S	
T	2,4,5-Trichlorophenoxypropionic acid						EH&S	CA BioAccu Organic
T	2,4,5-Trimethylaniline (and its strong acid salts)	137-17-7	OSHA Carcinogen					
T	2,4,6-Trichlorophenol	88-06-2	OSHA Carcinogen	F027				
T,F	2,4-/2,6-Dinitrotoluene (mixture)	0-66-0	OSHA Carcinogen					
T	2,4-D, salts & esters	194-75-7	OSHA Carcinogen	U240		D016		
T	2,4-Diaminoanisole	615-05-4	OSHA Carcinogen					
T	2,4-Diaminoanisole Sulfate	39156-41-7	OSHA Carcinogen					
T	2,4-Diaminotoluene	95-80-7	OSHA Carcinogen					
T	2,4-Dichlorophenol	120-83-2		U081				

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	2,4-Dichlorophenoxyacetic acid						EH&S	CA BioAccu Organic
T	2,4-Dichlorophenyl-p-nitrophenyl Ether	1836-75-5	OSHA Carcinogen					
T	2,4-Dimethylphenol	105-67-9		U101				
T	2,4-Dinitro-6-sec-butylphenol						EH&S	
T	2,4-Dinitrophenol	51-28-5			P048			
T	2,4-Dinitrotoluene	121-14-2	OSHA Carcinogen	U105		D030		
T	2,5-Cyclohexadiene-1,4-dione	106-51-4		U197				
T	2,5-Furandione	108-31-6		U147				
T	2,6-Dichlorophenol	87-65-0		U082				
T	2,6-Dimethylaniline	87-62-7	OSHA Carcinogen					
T,F	2,6-Dinitrotoluene	606-20-2	OSHA Carcinogen	U106				
T	2,6-Xylidine	87-62-7	OSHA Carcinogen					
T	2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-,alpha,7beta,7aalpha)-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)-, & metabolites	72-20-8			P051			
T	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)bis[5-amino-4-hydroxy]-,tetrasodium salt	72-57-1		U236				
T	254. *Diborane						EH&S	
T	2-AAF						EH&S	
T	2-Acetylaminofluorene	53-96-3	OSHA Carcinogen	U005				
T	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	712-68-5	OSHA Carcinogen					
T	2-Aminoanthraquinone	117-79-3	OSHA Carcinogen					
T	2-Aminofluorene	153-78-6	OSHA Carcinogen					
T	2-Aminonaphthalene	91-59-8	OSHA Carcinogen					
T	2-Aminopyridine						EH&S	
T	2-Butanone	78-93-3		U159				

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	2-Butanone, 3,3-dimethyl-1(methylthio)-, O-[methylamino)carbonyl] oxime	39196-18-4			P045			
T	2-Butanone, peroxide	1338-23-4		U160				
T	2-Butenal	4170-30-3		U053				
T	2-Butene, 1,4-dichloro-	764-41-0		U074				
T	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester,[1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-	303-34-4		U143				
T	2-Carbomethoxy-1-methylvinyl dimethylphosphate						EH&S	
T	2-Chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate						EH&S	
T	2-Chloro-2-diethyl--carbamoyl-1-methylvinyl dimethyl phosphate						EH&S	
T	2-Chloro-4,5-dimethylphenylmethyl-carbamate						EH&S	
T	2-Chloro-4-dimethylamino-6-methyl-pyrimidine						EH&S	
T,F	2-Chloroethyl vinyl ether	110-75-8		U042				
T	2-Chlorophenol	95-57-8	OSHA Carcinogen					
T	2-Cyclohexyl-4,6-dinitrophenol	131-89-5			P034			
T	2-Furancarboxaldehyde	98-01-1		U125				
T	2H-1,3,2-Oxazaphosphorin-2-amine,N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide	50-18-0		U058				
T	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less	81-81-2		U248	P001			
T	2-Imidazolidinethione	96-45-7		U116				
T	2-Methyl-1,3-butadiene	78-79-5	OSHA Carcinogen					
T	2-Methyl-1-nitroanthraquinone	129-15-7	OSHA Carcinogen					
T	2-Methyl-2(methylthio)propionaldehyde-O-(methylcarbamoyl) oxime						EH&S	

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	2-Methylaziridine	75-55-8	OSHA Carcinogen					
T	2-Methylacetonitrile	75-86-5			P069			
T	2-Naphthalenamine	91-59-8		U168				
T	2-Naphthylamine	91-59-8	OSHA Carcinogen					
T	2-Nitroanisole	91-23-6	OSHA Carcinogen					
T	2-Nitrofluorene	607-57-8	OSHA Carcinogen					
T	2-Nitropropane	79-46-9	OSHA Carcinogen	U171				
T	2-Picoline	109-06-8		U191				
T,F	2-Propanone	67-64-1		U002				
T	2-Propanone, 1-bromo-	598-31-2			P017			
T	2-Propen-1-ol	107-18-6			P005			
T	2-Propenal	107-02-8			P003			
T	2-Propenamide	79-06-1		U007				
T	2-Propenenitrile	107-13-1		U009				
T	2-Propenenitrile, 2-methyl-	126-98-7		U152				
T	2-Propenoic acid	79-10-7		U008				
T	2-Propenoic acid, 2-methyl-, ethyl ester	97-63-2		U118				
T	2-Propenoic acid, 2-methyl-, methyl ester	80-62-6		U162				
T	2-Propenoic acid, ethyl ester	140-88-5		U113				
T	2-Propyn-1-ol	107-19-7			P102			
T	2-tert-Butyl-5-methyl-4,6-dinitro-phenyl acetate						EH&S	
T	3(2H)-Isoxazolone, 5-(aminomethyl)-	2763-96-4			P007			
T	3-(N-Nitrosomethylamino)propionitrile	60153-49-3	OSHA Carcinogen					
T	3,3'-Dichloro-4,4'-diaminodiphenyl Ether	28434-86-8	OSHA Carcinogen					
T	3,3-Dichlorobenzidine and salts	91-94-1	OSHA Carcinogen	U073				
T	3,3'-Dichlorobenzidine Dihydrochloride	612-83-9	OSHA Carcinogen					
T	3,3'-Dimethoxybenzidine	119-90-4	OSHA Carcinogen	U091				
T	3,3'-Dimethoxybenzidine Dihydrochloride	20325-40-0	OSHA Carcinogen					

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T	3,3'-Dimethylbenzidine	119-93-7	OSHA Carcinogen	U095				
T	3,3'-Dimethylbenzidine Dihydrochloride	612-82-8	OSHA Carcinogen					
T	3,6-Pyridazinedione, 1,2-dihydro-	123-33-1		U148				
T	3,7-Dinitrofluoranthene	105735-71-5	OSHA Carcinogen					
T	3,9-Dinitrofluoranthene	22506-53-2	OSHA Carcinogen					
T	3-[1-(2-Furanyl)-3-oxobutyl]1-4-hydroxy-2H-1-benzopyran-2-one						EH&S	
T	3-Amino-1,2,4-triazole	61-82-5	OSHA Carcinogen					
T	3-Amino-9-ethylcarbazole Hydrochloride	6109-97-3	OSHA Carcinogen					
T	3-Bromo-1-propyne						EH&S	
T	3-Chloro-2-methylpropene	563-47-3	OSHA Carcinogen					
T	3-Chlorophenol	108-43-0	OSHA Carcinogen					
T	3-Chloropropionitrile	542-76-7			P027			
T	3-Isopropylphenyl N-methylcarbamate.	64-00-6			P202			
T	3-Methylcholanthrene	56-49-5	OSHA Carcinogen	U157				
T	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	56-04-2		U164				
T	4-(Dimethylamino)-3,5-dimethylphenyl methylcarbamate						EH&S	
T	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone	64091-91-4	OSHA Carcinogen					
T	4,4'-Diaminodiphenyl Ether	101-80-4	OSHA Carcinogen					
T	4,4'-Methylene bis(2-Chloroaniline)	101-14-4	OSHA Carcinogen					
T	4,4'-Methylene bis(2-Methylaniline)	838-88-0	OSHA Carcinogen					
T	4,4'-Methylene bis(N,N-dimethyl) Benzenamine	101-61-1	OSHA Carcinogen					
T	4,4'-Methylenebis(2-chloroaniline)	101-14-4		U158				
T	4,4'-Methylenedianiline [1910.1050]	101-77-9	OSHA Carcinogen					
T	4,4'-Methylenedianiline Dihydrochloride	13552-44-8	OSHA Carcinogen					
T	4,4'-Oxydianiline	101-80-4	OSHA Carcinogen					
T	4,4'-Thiodianiline	139-65-1	OSHA Carcinogen					

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T	4,6-Dinitro-o-cresol, & salts	534-52-1			P047			
T	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9		U036				
T	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	76-44-8			P059			
T	460.Mercuric salicylate						EH&S	
T	4-ADP						EH&S	
T	4-Amino-2-nitrophenol	119-34-6	OSHA Carcinogen					
T	4-Aminobiphenyl	92-67-1	OSHA Carcinogen					
T	4-Aminopyridine	504-24-5			P008			
T	4-Bromophenyl phenyl ether	101-55-3		U030				
T	4-Chloro-2-methylbenzenamine (and its strong acid salts)	95-69-2	OSHA Carcinogen					
T	4-Chloro-2-methylbenzenamine Hydrochloride	3165-93-3	OSHA Carcinogen					
T	4-Chloroaniline	106-47-8	OSHA Carcinogen					
T	4-Chloro-o-phenylenediamine	95-83-0	OSHA Carcinogen					
T	4-Chloro-o-toluidine (and its strong acid salts)	95-69-2	OSHA Carcinogen					
T	4-Chloro-o-toluidine, hydrochloride	3165-93-3		U049				
T	4-Chlorophenol	106-48-9	OSHA Carcinogen					
T	4-Dimethylaminoazobenzene	60-11-7	OSHA Carcinogen					
T	4-Hydroxy-3-(1,2,3,4-tetrahydro-1-naphthalenyl)-2H-1-benzopyran-2-one						EH&S	
T	4-Methyl-2-pentanone	108-10-1		U161				
T	4-Nitrobiphenyl	92-93-3	OSHA Carcinogen					
T	4-Nitrodiphenyl	92-93-3	OSHA Carcinogen					
T	4-Nitropyrene	57835-92-4	OSHA Carcinogen					
T	4-Pyridinamine	504-24-5			P008			
T	4-Vinyl Cyclohexene	100-40-3	OSHA Carcinogen					
T	4-Vinyl-1-cyclohexene Diepoxide	106-87-6	OSHA Carcinogen					

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T	5-(Aminomethyl)-3-isoxazolol	2763-96-4			P007			
T	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone	139-91-3	OSHA Carcinogen					
T	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone	3795-88-8	OSHA Carcinogen					
T	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl]oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	20830-81-3		U059				
T	5-Azacytidine	320-67-2	OSHA Carcinogen					
T	5-Chloro-o-toluidine (and its strong acids)	0-65-0	OSHA Carcinogen					
T	5-Methoxypsoralen	484-20-8	OSHA Carcinogen					
T	5-Methoxypsoralen plus UV A radiation	484-20-8	OSHA Carcinogen					
T	5-Methylchrysene {PAH}	3697-24-3	OSHA Carcinogen					
T	5-Nitroacenaphthene	602-87-9	OSHA Carcinogen					
T	5-Nitro-o-anisidine	99-59-2	OSHA Carcinogen					
T	5-Nitro-o-toluidine	99-55-8		U181				
T	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide	115-29-7			P050			
T	6-Nitrochrysene	7496-02-8	OSHA Carcinogen					
T	7,12-Dimethylbenz(a)anthracene	57-97-6	OSHA Carcinogen	U094				
T	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-	1563-38-8		U367	P127			
T	7H-Dibenzo[c,g]carbazole {PAH}	194-59-2	OSHA Carcinogen					
T	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	145-73-3			P088			
T	8-Methoxypsoralen plus UV A radiation	298-81-7	OSHA Carcinogen					
T	A2213	30558-43-1		U394				
T	A-alpha-C(2-Amino-9H-pyrido[2,3-b]indole)	26148-68-5	OSHA Carcinogen					
T	Acetaldehyde	75-07-0	OSHA Carcinogen	U001				
T	Acetaldehyde Methylformylhydrazone	16568-02-8	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Acetaldehyde, chloro-	107-20-0			P023			
T	Acetaldehyde, trichloro-	75-87-6		U034				
T	Acetamide	60-35-5	OSHA Carcinogen					
T	Acetamide, 2-fluoro-	640-19-7			P057			
T	Acetamide, N-(4-ethoxyphenyl)-	62-44-2		U187				
T	Acetamide, N-(aminothioxomethyl)-	591-08-2			P002			
T	Acetamide, N-9H-fluoren-2-yl-	53-96-3		U005				
T	Acetic acid ethyl ester	141-78-6		U112				
T	Acetic acid, (2,4,5-trichlorophenoxy)-	93-76-5		F027				
T	Acetic acid, (2,4-dichlorophenoxy)-,salts and esters	194-75-7		U240				
T	Acetic acid, fluoro-, sodium salt	62-74-8			P058			
T	Acetic acid, lead(2+) salt	301-04-2		U144				
T	Acetic acid, thallium(1+) salt	563-68-8		U214				
T	Acetochlor	34256-82-1	OSHA Carcinogen					
T,F	Acetone	67-64-1		U002				
T,F	Acetonitrile	75-05-8		U003				
T	Acetophenone	98-86-2		U004				
T,R	Acetyl chloride	75-36-5		U006				
T	Acifluorfen	62476-59-9	OSHA Carcinogen					
T	Acrolein	107-02-8			P003			
T	Acrylamide	79-06-1	OSHA Carcinogen	U007				
T	Acrylic acid	79-10-7		U008				
T	Acrylonitrile	107-13-1	OSHA Carcinogen	U009				
T	ACTIDIONE						EH&S	
T	Actinolite [asbestiform]	77536-66-4	OSHA Carcinogen					
T	Actinomycin D	50-76-0	OSHA Carcinogen					
T	Adiponitrile						EH&S	
T	Adriamycin	23214-92-8	OSHA Carcinogen					

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T	AF-2[2-(2-Furyl)-3-(5-nitro-2-furyl)acrylamide]	3688-53-7	OSHA Carcinogen					
T	AFL 1082						EH&S	
T	Aflatoxin M1	6795-23-9	OSHA Carcinogen					
T	Aflatoxins	1402-68-2	OSHA Carcinogen					
T	AGALLOL						EH&S	
T	Alachlor	15972-60-8	OSHA Carcinogen					
T	Aldicarb	116-06-3			P070			
T	Aldicarb sulfone	1646-88-4			P203			
T	Aldrin	309-00-2	OSHA Carcinogen		P004			CA BioAccu Organic
T	Alkyl aluminum chloride						EH&S	
T	Alkyl aluminum compounds						EH&S	
T,F	Allyl alcohol	107-18-6			P005			
T	Allyl trichlorosilane						EH&S	
T	alpha,alpha-Dimethylphenethylamine	122-09-8			P046			
T	alpha-Chlorinated Toluenes and Benzoyl Chloride (combined exposures)	0-51-0	OSHA Carcinogen					
T	alpha-Chloroacetophenone						EH&S	
T	alpha-Hexachlorocyclohexane	319-84-6	OSHA Carcinogen					
T	alpha-Naphthylamine	134-32-7	OSHA Carcinogen	U167				
T	alpha-Naphthylthiourea	86-88-4			P072			
T	Aluminum chloride (anhydrous)						EH&S	
T	Aluminum diethyl monochloride						EH&S	
T	Aluminum phosphide	20859-73-8			P006			
T	Aluminum Production	0-58-0	OSHA Carcinogen					
T	Amitrole	61-82-5	OSHA Carcinogen	U011				
T	Ammonium arsenate						EH&S	
T	Ammonium bifluoride						EH&S	
T	Ammonium Chromate, as Cr6+ [water soluble]	7788-98-9	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Ammonium Dichromate, as Cr6+ [water soluble]	7789-09-5	OSHA Carcinogen					
T	Ammonium Molybdate, as Mo [water soluble]	13106-76-8	OSHA Carcinogen					
T	Ammonium picrate	131-74-8			P009			
T	Ammonium vanadate	7803-55-6			P119			
T	Amosite	12172-73-5	OSHA Carcinogen					
T	Amsacrine	51264-14-3	OSHA Carcinogen					
T	Amyl trichlorosilane (and isomers)						EH&S	
T	Androgenic (anabolic) steroids	0-01-0	OSHA Carcinogen					
T	Aniline	62-53-3	OSHA Carcinogen	U012				
T	Aniline Hydrochloride	142-04-1	OSHA Carcinogen					
T	ANIMERT V-101						EH&S	
T	Anthophyllite [asbestiform]	77536-67-5	OSHA Carcinogen					
T	Antimony and/or antimony compounds						EH&S	CA BioAccu Inorganic
T	Antimony pentachloride						EH&S	
T	Antimony pentafluoride						EH&S	
T	Antimony Trioxide	1309-64-4	OSHA Carcinogen					
T	Aqualin						EH&S	
T	Aramite	140-57-8	OSHA Carcinogen					
T	ARETAN						EH&S	
T	Argentate(1-), bis(cyano-C)-,potassium	506-61-6			P099			
T	Aroclor 1254 {PCBs}	11097-69-1	OSHA Carcinogen					
T	Aroclor 1260 {PCBs}	11096-82-5	OSHA Carcinogen					
T	Arsenic acid	7778-39-4			P010			
T	Arsenic Acid Hemihydrate	7774-41-6	OSHA Carcinogen					
T	Arsenic and/or arsenic compounds						EH&S	Ca BioAccu Inorganic
T	Arsenic bromide						EH&S	
T	Arsenic chloride						EH&S	

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Arsenic compounds						EH&S	
T	Arsenic Disulfide	1303-32-8	OSHA Carcinogen					
T	Arsenic iodide						EH&S	
T	Arsenic oxide	1327-53-3			P012			
T	Arsenic oxide	1303-28-2			P011			
T	Arsenic pentaselenide						EH&S	
T	Arsenic Pentoxide	1303-28-2	OSHA Carcinogen		P011			
T	Arsenic sulfide						EH&S	
T	Arsenic Tribromide	7784-33-0	OSHA Carcinogen					
T	Arsenic Trichloride	7784-34-1	OSHA Carcinogen					
T	Arsenic Trifluoride	7784-35-2	OSHA Carcinogen					
T	Arsenic Triiodide	7784-45-4	OSHA Carcinogen					
T	Arsenic Trioxide	1327-53-3	OSHA Carcinogen		P012			
T	Arsenic Triselenide	1303-36-2	OSHA Carcinogen					
T	Arsenic Trisulfide	1303-33-9	OSHA Carcinogen					
T	Arsenic, Inorganic [1910.1018] - [see specific compound]	7440-38-2	OSHA Carcinogen					
T	Arsenical Dip	8024-75-9	OSHA Carcinogen					
T	Arsenious Acid	14060-38-9	OSHA Carcinogen					
T	Arsenious acid and salts						EH&S	
T	Arsenious oxide						EH&S	
T	Arsine, diethyl	692-42-2			P038			
T	Arsines						EH&S	
T	Arsinic acid, dimethyl-	75-60-5		U136				
T	Arsonous dichloride, phenyl-	696-28-6			P036			
T	Art Glass, Glass Containers, and Pressed Ware (manufacture of)	0-63-0	OSHA Carcinogen					
T	Asbestos						EH&S	

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Askarel						EH&S	
T	Asphalt (Petroleum) Fumes	8052-42-4	OSHA Carcinogen					
T	Attapulgate (long fibers, > 5 µm)	12174-11-7	OSHA Carcinogen					
T	Auramine	492-80-8	OSHA Carcinogen	U014				
T	Azacitidine	320-67-2	OSHA Carcinogen					
T	Azaserine	115-02-6	OSHA Carcinogen	U015				
T	Azathioprine	446-86-6	OSHA Carcinogen					
T	Aziridine	151-56-4	OSHA Carcinogen		P054			
T	Aziridine, 2-methyl-	75-55-8			P067			
T	Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8-[[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balph)]-	50-07-7		U010				
T	Azobenzene	103-33-3	OSHA Carcinogen					
T	AZODRIN, 3-Hydroxy-N-cis-crotonamide						EH&S	
T	AZT	30516-87-1	OSHA Carcinogen					
T	BANOL						EH&S	
T	Barban.	101-27-9		U280				
T	Barium and/or barium compounds (excluding barite)	7440-39-3				D005		CA BioAccu Inorganic
T	Barium Chromate, as Cr6+	10294-40-3	OSHA Carcinogen					
T	Barium Chromate, as Cr6+	12000-34-9	OSHA Carcinogen					
T	Barium Chromate, as Cr6+	12231-18-4	OSHA Carcinogen					
T,R	Barium cyanide	542-62-1			P013			
T	Basic Bismuth Dichromate, as Cr6+	37235-82-8	OSHA Carcinogen					
T	Basic Copper (II) Chromate, as Cr6+	1308-09-4	OSHA Carcinogen					
T	Basic Lead Carbonate Sulfate	1319-48-8	OSHA Carcinogen					
T	Basic Lead Chromate, as Cr6+	1344-38-3	OSHA Carcinogen					
T	Basic Lead Chromate, as Cr6+	18454-12-1	OSHA Carcinogen					

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Basic Lead Chromate, as Cr6+	54692-53-4	OSHA Carcinogen					
T	BAYER 25141						EH&S	
T	BAYER 25634						EH&S	
T	BCME						EH&S	
T	BCNU	154-93-8	OSHA Carcinogen					
T	Bendiocarb phenol.	22961-82-6		U364				
T	Bendiocarb.	22781-23-3		U278				
T	Benomyl.	17804-35-2		U271				
T	Benz[a]anthracene	56-55-3		U018				
T	Benz[a]anthracene {PAH}	56-55-3	OSHA Carcinogen					
T	Benz[a]anthracene, 7,12-dimethyl-	57-97-6		U094				
T	Benz[c]acridine	225-51-4		U016				
T	Benz[j]aceanthrylene, 1,2-dihydro-3- methyl-	56-49-5		U157				
T	Benzal Chloride	98-87-3	OSHA Carcinogen	U017				
T	Benzamide, 3,5-dichloro-N-(1,1dimethyl-2-propynyl)--	23950-58-5		U192				
T	Benzenamine	62-53-3		U012				
T	Benzenamine, 2-methyl-	95-53-4		U328				
T	Benzenamine, 2-methyl-, hydrochloride	636-21-5		U222				
T	Benzenamine, 2-methyl-5-nitro-	99-55-8		U181				
T	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-	492-80-8		U014				
T	Benzenamine, 4,4'-methylenebis[2-chloro	101-14-4		U158				
T	Benzenamine, 4-chloro-	106-47-8			P024			
T	Benzenamine, 4-chloro-2-methyl-, hydrochloride	3165-93-3		U049				
T	Benzenamine, 4-methyl-	106-49-0		U353				
T	Benzenamine, 4-nitro-	100-01-6			P077			
T	Benzenamine, N,N-dimethyl-4- (phenylazo)-	60-11-7		U093				
T,F	Benzene	71-43-2	OSHA Carcinogen	U019		D018		

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Benzene hexachloride, BHC; 1,2,3,4,5,6-Hexachloro--cyclohexane						EH&S	
T,F	Benzene, (1-methylethyl)-	98-82-8		U055				
T	Benzene, (chloromethyl)-	100-44-7			P028			
T	Benzene, (dichloromethyl)-	98-87-3		U017				
T	Benzene, (trichloromethyl)-	98-07-7		U023				
T	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4- methoxy-	72-43-5		U247				
T	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	50-29-3		U061				
T	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	72-54-8		U060				
T	Benzene, 1,2,4,5-tetrachloro-	95-94-3		U207				
T	Benzene, 1,2-dichloro-	95-50-1		U070				
T,F	Benzene, 1,3,5-trinitro-	99-35-4		U234				
T	Benzene, 1,3-dichloro-	541-73-1		U071				
T	Benzene, 1,3-diisocyanatomethyl-	26471-62-5		U223				
T	Benzene, 1,4-dichloro-	106-46-7		U072				
T	Benzene, 1-bromo-4-phenoxy-	101-55-3		U030				
T	Benzene, 1-methyl-2,4-dinitro-	121-14-2		U105				
T	Benzene, 2-methyl-1,3-dinitro-	606-20-2		U106				
T	Benzene, chloro-	108-90-7		U037				
T,F	Benzene, dimethyl-	1330-20-7		U239				
T	Benzene, hexachloro-	118-74-1		U127				
T	Benzene, hexahydro-	110-82-7		U056				
T	Benzene, methyl-	108-88-3		U220				
T	Benzene, nitro-	98-95-3		U169				
T	Benzene, pentachloro-	608-93-5		U183				
T	Benzene, pentachloronitro-	82-68-8		U185				
T	Benzene-1,3,5-d3 {C6H3D3}	1684-47-5	OSHA Carcinogen					

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T	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	510-15-6		U038				
T	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	305-03-3		U035				
T	Benzene-d {C6H5D1}	1120-89-4	OSHA Carcinogen					
T	Benzene-d6 {C6D6}	1076-43-3	OSHA Carcinogen					
T	Benzenediamine, ar-methyl-	25376-45-8		U221				
T	Benzeneethanamine, alpha,alpha- dimethyl-	122-09-8			P046			
T	Benzenephosphorous dichloride						EH&S	
T	Benzenesulfonic acid chloride	98-09-9		U020				
T, R	Benzenesulfonyl chloride	98-09-9		U020				
T	Benzenethiol	108-98-5			P014			
T	Benzidine and salts	92-87-5	OSHA Carcinogen	U021				
T	Benzidine-based Dyes	0-46-0	OSHA Carcinogen					
T	Benzo[a]pyrene	50-32-8	OSHA Carcinogen	U022				
T	Benzo[b]fluoranthene {PAH}	205-99-2	OSHA Carcinogen					
T	Benzo[j]fluoranthene {PAH}	205-82-3	OSHA Carcinogen					
T	Benzo[k]fluoranthene {PAH}	207-08-9	OSHA Carcinogen					
T	Benzo[rs]pentaphene	189-55-9		U064				
T	Benzofuran	271-89-6	OSHA Carcinogen					
T	Benzoic acid, 2-hydroxy-, compd. With (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1).	57-64-7			P188			
T	Benzotrichloride	98-07-7	OSHA Carcinogen	U023				
T	Benzotrifluoride						EH&S	
T	Benzoyl Chloride	98-88-4	OSHA Carcinogen					
T,R	Benzyl Chloride	100-44-7	OSHA Carcinogen		P028			
T	Benzyl chlorocarbonate						EH&S	
T	Benzyl chloroformate						EH&S	

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T	Benzyl Violet 4B	1694-09-3	OSHA Carcinogen					
T	Bertrandite	12161-82-9	OSHA Carcinogen					
T	Beryl Ore	1302-52-9	OSHA Carcinogen					
T	Beryllium & compounds, as Be - [see specific compound]	7440-41-7	OSHA Carcinogen					CA BioAccu Inorganic
T	Beryllium Acetate	543-81-7	OSHA Carcinogen					
T	Beryllium Acetate, Basic	1332-52-1	OSHA Carcinogen					
T	Beryllium Acetate, Basic	19049-40-2	OSHA Carcinogen					
T	Beryllium Acetylacetonate	10210-64-7	OSHA Carcinogen					
T	Beryllium Aluminum Silicate	1302-52-9	OSHA Carcinogen					
T,R	Beryllium Borohydride	17440-85-6	OSHA Carcinogen					
T	Beryllium Bromide	7787-46-4	OSHA Carcinogen					
T	Beryllium Carbide	506-66-1	OSHA Carcinogen					
T,C	Beryllium Carbonate	13106-47-3	OSHA Carcinogen					
T,C	Beryllium Carbonate	66104-24-3	OSHA Carcinogen					
T	Beryllium Carbonate Basic	1319-43-3	OSHA Carcinogen					
T	Beryllium Chloride	7787-47-5	OSHA Carcinogen					
T	Beryllium copper						EH&S	
T	Beryllium Fluoride	7787-49-7	OSHA Carcinogen					
T	Beryllium Formate	1111-71-3	OSHA Carcinogen					
T	Beryllium Hydride	7787-52-2	OSHA Carcinogen					
T,C	Beryllium Hydroxide	13327-32-7	OSHA Carcinogen					
T	Beryllium Iodide	7787-53-3	OSHA Carcinogen					
T	Beryllium Nitrate	13597-99-4	OSHA Carcinogen					
T	Beryllium Nitrate Tetrahydrate	13510-48-0	OSHA Carcinogen					
T	Beryllium Nitrate Trihydrate	7787-55-5	OSHA Carcinogen					
T	Beryllium Nitride	1304-54-7	OSHA Carcinogen					
T	Beryllium Oxide	1304-56-9	OSHA Carcinogen					

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T	Beryllium Perchlorate	13597-95-0	OSHA Carcinogen					
T	Beryllium Phosphate	13598-15-7	OSHA Carcinogen					
T	Beryllium Phosphate	13598-26-0	OSHA Carcinogen					
T	Beryllium Phosphate	35089-00-0	OSHA Carcinogen					
T	Beryllium Potassium Fluoride	7787-50-0	OSHA Carcinogen					
T	Beryllium Potassium Sulfate	53684-48-3	OSHA Carcinogen					
T, R	Beryllium powder	7440-41-7			P015			
T	Beryllium Selenate	10039-31-3	OSHA Carcinogen					
T	Beryllium Silicate	13598-00-0	OSHA Carcinogen					
T	Beryllium Silicate	15191-85-2	OSHA Carcinogen					
T	Beryllium Silicate	58500-38-2	OSHA Carcinogen					
T	Beryllium Silicate Hydrate	12161-82-9	OSHA Carcinogen					
T	Beryllium Sodium Fluoride	13871-27-7	OSHA Carcinogen					
T	Beryllium Sulfate	13510-49-1	OSHA Carcinogen					
T	Beryllium Sulfate Tetrahydrate	7787-56-6	OSHA Carcinogen					
T	Beryllium Zinc Silicate, as Be	39413-47-3	OSHA Carcinogen					
T	Beryllium-Aluminum Alloy, as Be fume or dust	12770-50-2	OSHA Carcinogen					
T	Beryllium-Copper Alloy, as Be fume or dust	11133-98-5	OSHA Carcinogen					
T	Beryllium-Copper-Cobalt Alloy, as Be fume or dust	55158-44-6	OSHA Carcinogen					
T	Beryllium-Nickel Alloy, as Be fume or dust [also see Ni]	37227-61-5	OSHA Carcinogen					
T	beta-Butyrolactone	3068-88-0	OSHA Carcinogen					
T	beta-Chloronaphthalene	91-58-7		U047				
T	beta-Chloroprene	126-99-8	OSHA Carcinogen					
T	beta-Chlorovinylchloroarsine						EH&S	
T	beta-Hexachlorocyclohexane	319-85-7	OSHA Carcinogen					
T	beta-Hydroxypropionitrile						EH&S	
T	beta-Naphthylamine	91-59-8	OSHA Carcinogen	U168				
T	beta-Propiolactone	57-57-8	OSHA Carcinogen					

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T	Betel quid with tobacco	0-79-0	OSHA Carcinogen					
T	BHA	25013-16-5	OSHA Carcinogen					
T	BIDRIN, Dicrotophos, 3-(Dimethylamino)-1-methyl-3-oxo-1-propenyldimethyl phosphate						EH&S	
T	Biphenyl						EH&S	
T	bis (Chloromethyl) ether						EH&S	
T	bis (Methylmercuric) sulfate						EH&S	
T	bis(2,3-Epoxypropyl) ether						EH&S	
T	bis(2-Chloro-1-methylethyl) Ether (technical grade)	108-60-1	OSHA Carcinogen					
T	bis(2-Chloroethyl) Ether	111-44-4	OSHA Carcinogen					
T	bis(2-Ethylhexyl) Phthalate	117-81-7	OSHA Carcinogen					
T	bis(Chloroethyl) Nitrosourea	154-93-8	OSHA Carcinogen					
T	bis(Chloromethyl) Ether	542-88-1	OSHA Carcinogen					
T	bis(Dimethylamino) Benzophenone	90-94-8	OSHA Carcinogen					
T	Bitumen (extracts of steam-refined and air-refined)	8052-42-4	OSHA Carcinogen					
T	BLACAFUM						EH&S	
T	Bleomycins	11056-06-7	OSHA Carcinogen					
T	BOMYL						EH&S	
T	Boranes						EH&S	
T	Bordeaux arsenites						EH&S	
T	Boron trichloride						EH&S	
T	Boron trifluoride						EH&S	
T	BPL	57-57-8	OSHA Carcinogen					
T	Bracken Fern	0-04-0	OSHA Carcinogen					
T	Bromine						EH&S	
T	Bromine pentafluoride						EH&S	
T	Bromine trifluoride						EH&S	

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Bromoacetone	598-31-2			P017			
T	Bromodichloromethane	75-27-4	OSHA Carcinogen					
T	Bromoethane	74-96-4	OSHA Carcinogen					
T	Bromoform	75-25-2	OSHA Carcinogen	U225				
T	Bromomethane						EH&S	
T	Brucine	357-57-3			P018			
T	Brucine, Dimethoxystrychnine						EH&S	
T	Busulfan	55-98-1	OSHA Carcinogen					
T	Butylated Hydroxyanisole	25013-16-5	OSHA Carcinogen					
T	Butylphenoxyisopropyl Chloroethyl Sulfite	140-57-8	OSHA Carcinogen					
T	C.I. Acid Red 114	6459-94-5	OSHA Carcinogen					
T	C.I. Basic Red 9 Monohydrochloride	569-61-9	OSHA Carcinogen					
T	C.I. Direct Blue 14	72-57-1	OSHA Carcinogen					
T	C.I. Direct Blue 15	2429-74-5	OSHA Carcinogen					
T	C.I. Direct Blue 218	28407-37-6	OSHA Carcinogen					
T	C.I. Disperse Orange 11	82-28-0	OSHA Carcinogen					
T	C.I. Pigment Black 13	1307-96-6	OSHA Carcinogen					
T	C.I. Pigment Orange 21, as Cr6+	1344-38-3	OSHA Carcinogen					
T	C.I. Pigment Orange 21, as Cr6+	54692-53-4	OSHA Carcinogen					
T	C.I. Pigment Red 104, as Cr6+	8005-36-5	OSHA Carcinogen					
T	C.I. Pigment Red 104, as Cr6+	12213-61-5	OSHA Carcinogen					
T	C.I. Pigment Red 104, as Cr6+	12656-85-8	OSHA Carcinogen					
T	C.I. Pigment Red 104, as Cr6+	12709-98-7	OSHA Carcinogen					
T	C.I. Pigment Red 104, as Cr6+	64523-06-4	OSHA Carcinogen					
T	C.I. Pigment Yellow 34, as Cr6+	7758-97-6	OSHA Carcinogen					
T	C.I. Pigment Yellow 36, as Cr6+	1308-13-0	OSHA Carcinogen					
T	C.I. Pigment Yellow 36, as Cr6+	1328-67-2	OSHA Carcinogen					
T	C.I. Pigment Yellow 36, as Cr6+	13530-65-9	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	C.I. Pigment Yellow 36, as Cr6+	14675-41-3	OSHA Carcinogen					
T	C.I. Pigment Yellow 36, as Cr6+	37300-23-5	OSHA Carcinogen					
T	C.I. Pigment Yellow 36, as Cr6+	57486-12-1	OSHA Carcinogen					
T	C.I. Pigment Yellow 45, as Cr6+	10294-52-7	OSHA Carcinogen					
T	C.I. Solvent Orange 2	2646-17-5	OSHA Carcinogen					
T	C.I. Solvent Yellow 14	842-07-9	OSHA Carcinogen					
T	Cacodylic Acid	75-60-5	OSHA Carcinogen					
T	Cacodylic acid	75-60-5		U136				
T	Cadmium Acetate	543-90-8	OSHA Carcinogen					
T	Cadmium and/or cadmium compounds	7440-43-9	OSHA Carcinogen			D006		CA BioAccu Inorganic
T	Cadmium Bromide	7789-42-6	OSHA Carcinogen					
T	Cadmium Carbonate	513-78-0	OSHA Carcinogen					
T	Cadmium Chloride	10108-64-2	OSHA Carcinogen					
T,R	Cadmium Cyanide	542-83-6	OSHA Carcinogen					
T	Cadmium Fluoborate	14486-19-2	OSHA Carcinogen					
T	Cadmium Fluoride	7790-79-6	OSHA Carcinogen					
T,C	Cadmium Hydroxide	21041-95-2	OSHA Carcinogen					
T	Cadmium Iodide	7790-80-9	OSHA Carcinogen					
T	Cadmium Nitrate	10325-94-7	OSHA Carcinogen					
T	Cadmium Oxide	1306-19-0	OSHA Carcinogen					
T	Cadmium Potassium Cyanide	14402-75-6	OSHA Carcinogen					
T	Cadmium Selenate	13814-62-5	OSHA Carcinogen					
T	Cadmium Selenide	1306-24-7	OSHA Carcinogen					
T	Cadmium Stearate	2223-93-0	OSHA Carcinogen					
T	Cadmium Sulfate	10124-36-4	OSHA Carcinogen					
T, R	Cadmium Sulfide	1306-23-6	OSHA Carcinogen					
T	Cadmium Telluride	1306-25-8	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Cadmium Tungstate (VI)	7790-85-4	OSHA Carcinogen					
T	Cadmium-Copper Alloy, cadmium nonbase	12685-29-9	OSHA Carcinogen					
T	Cadmium-Copper Alloy, copper alloy, base, Cu>99.60%	132295-57-9	OSHA Carcinogen					
T	Cadmium-Copper Alloy, copper alloy, base, Cu>99.75%	132295-56-8	OSHA Carcinogen					
T	Cadmium-Copper Alloy, copper base	37364-06-0	OSHA Carcinogen					
T	Caffeic Acid	331-39-5	OSHA Carcinogen					
T, R	Calcium						EH&S	
T	Calcium Arsenate	7778-44-1	OSHA Carcinogen					
T	Calcium Arsenate	10103-62-5	OSHA Carcinogen					
T	Calcium Arsenite, 1:1	52740-16-6	OSHA Carcinogen					
T	Calcium Arsenite, 2:1	15194-98-6	OSHA Carcinogen					
T	Calcium Arsenite, 2:3	27152-57-4	OSHA Carcinogen					
T,R	Calcium carbide						EH&S	
T	Calcium chromate	13765-19-0		U032				
T	Calcium Chromate, as Cr6+	13765-19-0	OSHA Carcinogen					
T,R	Calcium cyanide	592-01-8			P021			
T,R	Calcium hydride						EH&S	
T,R	Calcium hypochlorite						EH&S	
T	Calcium Molybdate, as Mo [water soluble]	7789-82-4	OSHA Carcinogen					
T	Calcium oxychloride (dry)						EH&S	
T	Calcium phosphide						EH&S	
T	Captafol	2425-06-1	OSHA Carcinogen					
T	Captan	133-06-2	OSHA Carcinogen					
T	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester.	101-27-9		U280				
T	Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester.	55285-14-8			P189			

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester	23564-05-8		U409				
T	Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester.	17804-35-2		U271				
T	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester	10605-21-7		U372				
T	Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]- 5-methyl-1H- pyrazol-3-yl ester.	644-64-4			P191			
T	Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)- 1H- pyrazol-5-yl ester.	119-38-0			P192			
T	Carbamic Acid, Ethyl Ester	51-79-6	OSHA Carcinogen					
T	Carbamic acid, ethyl ester	51-79-6		U238				
T	Carbamic acid, methyl-, 3-methylphenyl ester.	1129-41-5			P190			
T	Carbamic acid, methylnitroso-, ethyl ester	615-53-2		U178				
T	Carbamic acid, phenyl-, 1-methylethyl ester	122-42-9		U373				
T	Carbamic chloride, dimethyl-	79-44-7		U097				
T	Carbamodithioic acid, 1,2-ethanediybis-,salts & esters	111-54-6		U114				
T	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester	2303-17-5		U389				
T	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	2303-16-4		U062				
T	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester.	52888-80-9		U387				
T	Carbanolate						EH&S	
T	Carbaryl.	63-25-2		U279				
T	Carbazole	86-74-8	OSHA Carcinogen					
T	Carbendazim.	10605-21-7		U372				
T	Carbofuran phenol.	1563-38-8		U367				
T	Carbofuran.	1563-66-2			P127			
T,F	Carbon Black	1333-86-4	OSHA Carcinogen					
T	Carbon Black extracts (benzene solvent) {PAH}	0-05-0	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Carbon disulfide	75-15-0			P022			
T	Carbon oxyfluoride	353-50-4		U033				
T	Carbon Tetrachloride	56-23-5	OSHA Carcinogen	U211		D019		
T	Carbonic acid, dithallium(1+) salt	6533-73-9		U215				
T	Carbonic dichloride	75-44-5			P095			
T	Carbonic difluoride	353-50-4		U033				
T	Carbonochloridic acid, methyl ester	79-22-1		U156				
T	Carbophenothion						EH&S	
T	Carbosulfan	55285-14-8			P189			
T	Carmustine	154-93-8	OSHA Carcinogen					
T	CASTRIX						EH&S	
T	Catechol	120-80-9	OSHA Carcinogen					
T	CCNU	13010-47-4	OSHA Carcinogen					
T	Ceramic Fiber	409-21-2	OSHA Carcinogen					
T	Ceresan Liquid						EH&S	
T	CEREWET						EH&S	
T	Cesium Chromate, as Cr6+ [water soluble]	13454-78-9	OSHA Carcinogen					
T	CHEMFLOM						EH&S	
T	Chloral	75-87-6		U034				
T	Chlorambucil	305-03-3	OSHA Carcinogen	U035				
T	Chloramphenicol	56-75-7	OSHA Carcinogen					
T	Chlordane	57-74-9	OSHA Carcinogen	U036		D020		CA BioAccu Organic
T	Chlordane (technical grade)	12789-03-6	OSHA Carcinogen					
T	Chlordecone	143-50-0	OSHA Carcinogen					
T	Chlordimeform	6164-98-3	OSHA Carcinogen					
T	Chlorendic Acid	115-28-6	OSHA Carcinogen					
T	Chlorextol						EH&S	
T	Chlorfenvinphos						EH&S	

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Chlorinated Camphene	8001-35-2	OSHA Carcinogen					
T	Chlorinated Paraffins (avg. C12, 60% Chlorine)	63449-39-8	OSHA Carcinogen					
T	Chlorinated Paraffins (avg. C12, 60% Chlorine)	108171-26-2	OSHA Carcinogen					
T	Chlorine						EH&S	
T	Chlorine dioxide						EH&S	
T	Chlorine pentafluoride						EH&S	
T	Chlorine trifluoride						EH&S	
T	Chlornaphazine	494-03-1	OSHA Carcinogen	U026				
T	Chloroacetaldehyde	107-20-0			P023			
T	Chloroacetyl chloride						EH&S	
T	Chlorobenzene	108-90-7		U037		D021		
T	Chlorobenzilate	510-15-6		U038				
T	Chlorochromic anhydride						EH&S	
T	Chlorodiphenyl (42% chlorine) {PCBs}	53469-21-9	OSHA Carcinogen					
T	Chlorodiphenyl (54% chlorine) {PCBs}	11097-69-1	OSHA Carcinogen					
T	Chloroethane	75-00-3	OSHA Carcinogen					
T	Chloroethylene [1910.1017]	75-01-4	OSHA Carcinogen					
T	Chloroform	67-66-3	OSHA Carcinogen	U044		D022		
T	Chloroform-d {CDCl ₃ }	865-49-6	OSHA Carcinogen					
T,F	Chloromethyl Methyl Ether	107-30-2	OSHA Carcinogen	U046				
T	Chlorophenoxy Herbicides	0-06-0	OSHA Carcinogen					
T	Chloropicrin						EH&S	
T	Chlorosulfonic acid						EH&S	
T	Chlorothalonil	1897-45-6	OSHA Carcinogen					
T	Chlorotrianisene	569-57-3	OSHA Carcinogen					
T	Chlorozotocin	54749-90-5	OSHA Carcinogen					
T	Chrome Red, as Cr ⁶⁺	18454-12-1	OSHA Carcinogen					

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Chromic Acetate, as Cr6+ [water-soluble]	1066-30-4	OSHA Carcinogen					
T	Chromic Acid, as Cr6+ [water soluble]	1333-82-0	OSHA Carcinogen					
T	Chromic Acid, as Cr6+ [water soluble]	12324-05-9	OSHA Carcinogen					
T	Chromic Acid, as Cr6+ [water soluble]	12324-08-2	OSHA Carcinogen					
T	Chromic acid, calcium salt	13765-19-0		U032				
T	Chromic Chromate, as Cr6+ [water soluble]	24613-89-6	OSHA Carcinogen					
T	Chromium	7440-47-3				D007		
T	Chromium [VI] Chloride	14986-48-2	OSHA Carcinogen					
T	Chromium and/or chromium (III) compounds	18540-29-9	OSHA Carcinogen					CA BioAccu Inorganic
T	Chromium Carbonate, as Cr6+ [water-soluble]	29689-14-3	OSHA Carcinogen					
T	Chromium Carbonyl, as Cr6+	13007-92-6	OSHA Carcinogen					
T	Chromium Carbonyl, as Cr6+	13930-94-4	OSHA Carcinogen					
T	Chromium Hexachloride, as Cr6+	14986-48-2	OSHA Carcinogen					
T	Chromium Oxide, as Cr6+ [water soluble]	1333-82-0	OSHA Carcinogen					
T	Chromium Oxide, as Cr6+ [water soluble]	12324-05-9	OSHA Carcinogen					
T	Chromium Oxide, as Cr6+ [water soluble]	12324-08-2	OSHA Carcinogen					
T	Chromium Phosphate, as Cr6+ [water-soluble]	7789-04-0	OSHA Carcinogen					
T	Chromium Trioxide, as Cr6+ [water soluble]	1333-82-0	OSHA Carcinogen					
T	Chromium Trioxide, as Cr6+ [water soluble]	12324-05-9	OSHA Carcinogen					
T	Chromium Trioxide, as Cr6+ [water soluble]	12324-08-2	OSHA Carcinogen					
T	Chromyl chloride						EH&S	
T	Chromyl Chloride, as Cr6+ [water soluble]	14977-61-8	OSHA Carcinogen					
T	Chrysazin	117-10-2	OSHA Carcinogen					
T	Chrysene	218-01-9	OSHA Carcinogen					
T	Chrysotile	12001-29-5	OSHA Carcinogen					
T	Ciclosporin	59865-13-3	OSHA Carcinogen					
T	Ciclosporin	79217-60-0	OSHA Carcinogen					

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T	Cidofovir	113852-37-2	OSHA Carcinogen					
T	Cinnamyl Anthranilate	87-29-6	OSHA Carcinogen					
T	Cisplatin	15663-27-1	OSHA Carcinogen					
T	Citrus Red No.2	6358-53-8	OSHA Carcinogen					
T	Clofibrate	637-07-0	OSHA Carcinogen					
T	CMME						EH&S	
T	Coal Tar Pitch Volatiles (as benzene solubles)	65996-93-2	OSHA Carcinogen					
T	Coal Tars	8007-45-2	OSHA Carcinogen					
T	Coal Tars & Extracts, and high-temp. coal tars	65996-89-6	OSHA Carcinogen					
T	Cobalt (II) Acetate	71-48-7	OSHA Carcinogen					
T	Cobalt (II) Acetate Tetrahydrate	6147-53-1	OSHA Carcinogen					
T	Cobalt (II) Arsenate, as As3+	7785-24-2	OSHA Carcinogen					
T	Cobalt (II) Bromide	7789-43-7	OSHA Carcinogen					
T	Cobalt (II) Carbonate	513-79-1	OSHA Carcinogen					
T	Cobalt (II) Carbonate Hydroxide (1:1)	12069-68-0	OSHA Carcinogen					
T	Cobalt (II) Carbonate Hydroxide (2:3)	12602-23-2	OSHA Carcinogen					
T	Cobalt (II) Carbonate Hydroxide (2:3) Monohydrate	51839-24-8	OSHA Carcinogen					
T	Cobalt (II) Chloride	7646-79-9	OSHA Carcinogen					
T	Cobalt (II) Chloride Hexahydrate	7791-13-1	OSHA Carcinogen					
T	Cobalt (II) Chromate (III)	13455-25-9	OSHA Carcinogen					
T,R	Cobalt (II) Cyanide	542-84-7	OSHA Carcinogen					
T,C	Cobalt (II) Fluoride	10026-17-2	OSHA Carcinogen					
T	Cobalt (II) Formate	544-18-3	OSHA Carcinogen					
T,C	Cobalt (II) Hydroxide	21041-93-0	OSHA Carcinogen					
T	Cobalt (II) Iodide	15238-00-3	OSHA Carcinogen					
T	Cobalt (II) Molybdenum (VI) Oxide	13762-14-6	OSHA Carcinogen					
T	Cobalt (II) Naphthenate	61789-51-3	OSHA Carcinogen					

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T	Cobalt (II) Nitrate	10141-05-6	OSHA Carcinogen					
T	Cobalt (II) Nitrate Hexahydrate	10026-22-9	OSHA Carcinogen					
T	Cobalt (II) Oxalate	814-89-1	OSHA Carcinogen					
T	Cobalt (II) Oxide	1307-96-6	OSHA Carcinogen					
T	Cobalt (II) Phosphate	13455-36-2	OSHA Carcinogen					
T	Cobalt (II) Potassium Sulfate	13596-22-0	OSHA Carcinogen					
T	Cobalt (II) Sulfate	10124-43-3	OSHA Carcinogen					
T	Cobalt (II) Sulfide	1317-42-6	OSHA Carcinogen					
T	Cobalt (II) Thiocyanate	3017-60-5	OSHA Carcinogen					
T	Cobalt (II, III) Oxide	1308-06-1	OSHA Carcinogen					
T	Cobalt (III) Acetate	917-69-1	OSHA Carcinogen					
T	Cobalt (III) Fluoride	10026-18-3	OSHA Carcinogen					
T,C	Cobalt (III) Hydroxide	1307-86-4	OSHA Carcinogen					
T	Cobalt (III) Oxide	1308-04-9	OSHA Carcinogen					
T	Cobalt (III) Oxide Monohydrate	12016-80-7	OSHA Carcinogen					
T	Cobalt (III) Potassium Nitrite	13782-01-9	OSHA Carcinogen					
T	Cobalt and/or cobalt compounds						EH&S	CA BioAccu Inorganic
T	Cobalt Carbonyl, as Co	10210-68-1	OSHA Carcinogen					
T	Cobalt Chromium Alloy, as Cr6+	11114-92-4	OSHA Carcinogen					
T	Cobalt Hydrocarbonyl, as Co	16842-03-8	OSHA Carcinogen					
T	Cobalt metal powder & Co compounds, as Co - [see specific compound]	7440-48-4	OSHA Carcinogen					
T	Cobalt Monoxide	1307-96-6	OSHA Carcinogen					
T	Cobalt Sulfate Heptahydrate	10026-24-1	OSHA Carcinogen					
T	Coffee (urinary bladder only)	0-47-0	OSHA Carcinogen					
T	Coke Oven Emissions {PAH}	0-07-0	OSHA Carcinogen					
T	Compound 1080						EH&S	

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T	Compound 1836						EH&S	
T	Compound 4072						EH&S	
T	Copper (II) Acetoarsenite	12002-03-8	OSHA Carcinogen					
T	Copper (II) Dichromate, as Cr6+ [water soluble]	0-08-0	OSHA Carcinogen					
T	Copper acetoarsenite						EH&S	
T	Copper and/or copper compounds						EH&S	CA BioAccu Inorganic
T	Copper arsenate						EH&S	
T	Copper arsenite						EH&S	
T	Copper Chromate Oxide, as Cr6+	1308-09-4	OSHA Carcinogen					
T	Copper Chromate Oxide, as Cr6+	18906-50-8	OSHA Carcinogen					
T	Copper Chromate, as Cr6+	13548-42-0	OSHA Carcinogen					
T,R	Copper cyanide	544-92-3			P029			
T	Coroxon						EH&S	
T	Coumafuryl						EH&S	
T	Coumatetralyl						EH&S	
T	Creosote			U051				
T	Creosotes (coal)	8001-58-9	OSHA Carcinogen					
T	Creosotes (wood)	8021-39-4	OSHA Carcinogen					
T	Cresol (Cresylic acid)	1319-77-3		U052		D026		
T	Crimidine						EH&S	
T	Cristobalite {Silica (respirable) - Crystalline}	14464-46-1	OSHA Carcinogen					
T	Crocidolite	12001-28-4	OSHA Carcinogen					
T	Crotonaldehyde	4170-30-3		U053				
T	Cumene	98-82-8		U055				
T	Cupferron	135-20-6	OSHA Carcinogen					
T	Cupric Acetoarsenite	12002-03-8	OSHA Carcinogen					
T	Cupric arsenate						EH&S	

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T	Cupric Arsenite	10290-12-7	OSHA Carcinogen					
T	Cupric Chromate, as Cr6+	13548-42-0	OSHA Carcinogen					
T, R	Cyanides (soluble cyanide salts), not otherwise specified				P030			
T	Cyanogen	460-19-5			P031			
T	Cyanogen bromide (CN)Br	506-68-3		U246				
T	Cyanogen chloride	506-77-4			P033			
T	Cyanophenphos						EH&S	
T	Cycasin	14901-08-7	OSHA Carcinogen					
T	Cyclohexane	110-82-7		U056				
T	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)-	58-89-9		U129				
T	Cyclohexanone	108-94-1		U057				
T	Cyclohexenyltrichlorosilane						EH&S	
T	Cycloheximide						EH&S	
T	Cyclohexyltrichlorosilane						EH&S	
T	Cyclophosphamide (anhydrous)	50-18-0	OSHA Carcinogen	U058				
T	Cyclophosphamide (hydrated)	6055-19-2	OSHA Carcinogen					
T	Cyclosporin	79217-60-0	OSHA Carcinogen					
T	Cyclosporin A	59865-13-3	OSHA Carcinogen					
T	CYOLAN						EH&S	
T	Cytembena	21739-91-3	OSHA Carcinogen					
T	D&C Orange No. 17	3468-63-1	OSHA Carcinogen					
T	D&C Red No. 19	81-88-9	OSHA Carcinogen					
T	D&C Red No. 8	2092-56-0	OSHA Carcinogen					
T	D&C Red No. 9	5160-02-1	OSHA Carcinogen					
T	Dacarbazine	4342-03-4	OSHA Carcinogen					
T	Daminozide	1596-84-5	OSHA Carcinogen					
T	Dantron	117-10-2	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	DASANIT						EH&S	
T	Daunomycin	20830-81-3	OSHA Carcinogen	U059				
T	DBCP						EH&S	
T	DBCP [1910.1044]	96-12-8	OSHA Carcinogen					
T	DCB	91-94-1	OSHA Carcinogen	U073				
T	DDD	72-54-8	OSHA Carcinogen	U060				CA BioAccu Organic
T	DDE	72-55-9	OSHA Carcinogen					CA BioAccu Organic
T	DDT	50-29-3	OSHA Carcinogen	U061				CA BioAccu Organic
T	DDVP	62-73-7	OSHA Carcinogen					
T	DEAC						EH&S	
T	Decaborane						EH&S	
T	Decabromobiphenyl (PBBs)	13654-09-6	OSHA Carcinogen					
T	DEHP	117-81-7	OSHA Carcinogen					
T	DELNAV						EH&S	
T	Demeton						EH&S	
T	Demeton-S-methyl sulfone						EH&S	
T	DEN	55-18-5	OSHA Carcinogen					
T	DES	56-53-1	OSHA Carcinogen					
T	D-Glucose, 2-deoxy-2-[[[(methylnitrosoamino)-carbonyl]amino]-	18883-66-4		U206				
T	DGRE	101-90-6	OSHA Carcinogen					
T	di(2-Ethylhexyl) Phthalate	117-81-7	OSHA Carcinogen					
T	Diallate	2303-16-4		U062				
T	Diaminotoluene (mixed)	0-74-0	OSHA Carcinogen					
T	Diammonium Molybdate, as Mo [water soluble]	27546-07-2	OSHA Carcinogen					
T	Diazomethane	334-88-3	OSHA Carcinogen					
T	Dibenz[a,h]acridine {PAH}	226-36-8	OSHA Carcinogen					
T	Dibenz[a,h]anthracene {PAH}	53-70-3	OSHA Carcinogen	U063				

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Dibenz[a,j]acridine {PAH}	224-42-0	OSHA Carcinogen					
T	Dibenzo[a,e]pyrene {PAH}	192-65-4	OSHA Carcinogen					
T	Dibenzo[a,h]pyrene {PAH}	189-64-0	OSHA Carcinogen					
T	Dibenzo[a,i]pyrene {PAH}	189-55-9	OSHA Carcinogen	U064				
T	Dibenzo[a,l]pyrene {PAH}	191-30-0	OSHA Carcinogen					
T	Diboron Hexahydride						EH&S	
T	Dibutyl phthalate	84-74-2		U069				
T	Dichloroacetic Acid	79-43-6	OSHA Carcinogen					
T	Dichlorodifluoromethane	75-71-8		U075				
T	Dichlorodimethylsilane						EH&S	
T	Dichlorodiphenyldichloroethane	72-54-8	OSHA Carcinogen					
T	Dichlorodiphenyldichloroethylene	72-55-9	OSHA Carcinogen					
T	Dichlorodiphenyltrichloroethane	50-29-3	OSHA Carcinogen					
T,F	Dichloroethyl ether	111-44-4		U025				
T	Dichloroethylarsine						EH&S	
T	Dichloroisopropyl ether	108-60-1		U027				
T	Dichloromethane [1910.1052]	75-09-2	OSHA Carcinogen					
T	Dichloromethane-d2 {CD2Cl2} [1910.1052]	1665-00-5	OSHA Carcinogen					
T	Dichloromethoxy ethane	111-91-1		U024				
T,F	Dichloromethyl ether	542-88-1			P016			
T	Dichlorophenylarsine	696-28-6			P036			
T	Dichlorvos	62-73-7	OSHA Carcinogen				EH&S	
T	Dicobalt Octacarbonyl, as Co	10210-68-1	OSHA Carcinogen					
T	Dieldrin	60-57-1	OSHA Carcinogen		P037			CA BioAccu Organic
T	Dienestrol	84-17-3	OSHA Carcinogen					
T	Diepoxybutane	1464-53-5	OSHA Carcinogen					
T	Diesel Engine Emissions {particulate, <1 µm}	0-29-0	OSHA Carcinogen					
T	Diesel Fuel #4	0-18-0	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Diesel Fuel, Marine	0-18-0	OSHA Carcinogen					
T	Diethyl chlorovinyl phosphate						EH&S	
T	Diethyl phthalate	84-66-2		U088				
T	Diethylaluminum chloride						EH&S	
T	Diethylarsine	692-42-2			P038			
T,R	Diethyldichlorosilane						EH&S	
T	Diethylene glycol, dicarbamate.	5952-26-1		U395				
T	Diethylhexyl phthalate	117-81-7		U028				
T	Diethylnitrosamine	55-18-5	OSHA Carcinogen					
T	Diethyl-p-nitrophenyl phosphate	311-45-5			P041			
T	Diethylstilbestrol	56-53-1	OSHA Carcinogen	U089				
T	Diethylsulfate	64-67-5	OSHA Carcinogen					
T	Diethylzinc						EH&S	
T	Difluorophosphoric acid						EH&S	
T	Diglycidyl Resorcinol Ether	101-90-6	OSHA Carcinogen					
T	Dihydrosafrole	94-58-6	OSHA Carcinogen	U090				
T	Diisopropylfluorophosphate (DFP)	55-91-4			P043			
T	Diisopropylsulfate	2973-10-6	OSHA Carcinogen					
T	DIMECRON						EH&S	
T	Dimefox						EH&S	
T	Dimethoate	60-51-5			P044			
T	Dimethoxystrychnine						EH&S	
T	Dimethyl 3-hydroxyglutaconate dimethylphosphate						EH&S	
T	Dimethyl dichlorovinylphosphate						EH&S	
T	Dimethyl nitrosoamine						EH&S	
T	Dimethyl phthalate	131-11-3		U102				
T	Dimethyl sulfate	77-78-1		U103				
T,R	Dimethyl sulfide						EH&S	

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Dimethylamine	124-40-3		U092				
T	Dimethylaminoazobenzene						EH&S	
T	Dimethylarsinic acid						EH&S	
T	Dimethylbenzylhydroperoxide	80-15-9		U096				
T	Dimethylcarbamoyl Chloride	79-44-7	OSHA Carcinogen	U097				
T	Dimethyldichlorosilane						EH&S	
T	Dimethylsulfate	77-78-1	OSHA Carcinogen					
T	Dimethylvinyl Chloride	513-37-1	OSHA Carcinogen					
T	Dimetilan.	644-64-4			P191			
T	Dinitrobenzene (ortho, meta, para)						EH&S	
T	Di-n-octyl phthalate	117-84-0		U107				
T	DINOSEB	88-85-7			P020			
T	di-n-Propyl Isocinchomeronate	136-45-8	OSHA Carcinogen					
T	Di-n-propylnitrosamine	621-64-7		U111				
T	Dioxathion						EH&S	
T	Dioxin (2,3,7,8-TCDD)						EH&S	CA BioAccu Organic
T	Diphenyl						EH&S	
T	Diphenylamine chloroarsine						EH&S	
T	Diphenyldichlorosilane						EH&S	
T	Diphenylhydantoin	57-41-0	OSHA Carcinogen					
T	Diphenylhydantoin (sodium salt)	630-93-3	OSHA Carcinogen					
T	Diphosphoramidate, octamethyl-	152-16-9			P085			
T	Diphosphoric acid, tetraethyl ester	107-49-3			P111			
T	Dipropylamine	142-84-7		U110				
T	Direct Black 38 (technical grade)	1937-37-7	OSHA Carcinogen					
T	Direct Black GX	1937-37-7	OSHA Carcinogen					
T	Direct Blue 6 (technical grade)	2602-46-2	OSHA Carcinogen					
T	Direct Brown 95 (technical grade)	16071-86-6	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	di-sec-Octylphthalate	117-81-7	OSHA Carcinogen					
T	Disodium Arsenate	7778-43-0	OSHA Carcinogen					
T	Disodium Arsenate Heptahydrate	10048-95-0	OSHA Carcinogen					
T	Disodium Hydrogen Arsenate	10048-95-0	OSHA Carcinogen					
T	Disperse Blue 1	2475-45-8	OSHA Carcinogen					
T	Disulfoton	298-04-4			P039			
T	Disulfuryl chloride						EH&S	
T	Dithiobiuret	541-53-7			P049			
T	DITHIONE						EH&S	
T	DMN	62-75-9	OSHA Carcinogen					
T	DNPC						EH&S	
T	Dodecyltrichlorosilane						EH&S	
T	Donovan's Solution, as As3+	8012-54-2	OSHA Carcinogen					
T	DOWCO-139						EH&S	
T	DOWICIDE I						EH&S	
T	Doxorubicin Hydrochloride	23214-92-8	OSHA Carcinogen					
T	Doxorubicin Hydrochloride	25316-40-9	OSHA Carcinogen					
T	Dyes that metabolize to benzidine	0-77-0	OSHA Carcinogen					
T	DYFONATE						EH&S	
T	E Dinitrophenol(2,3-;2,4-;2,6-isomers)						EH&S	
T	EDB	106-93-4	OSHA Carcinogen					
T	Endosulfan	115-29-7			P050			
T	Endothall	145-73-3			P088			
T	Endothion						EH&S	
T	Endrin	72-20-8			P051	D012		CA BioAccu Organic
T	ENU	759-73-9	OSHA Carcinogen					
T	Epichlorohydrin	106-89-8	OSHA Carcinogen	U041				
T	Epinephrine	51-43-4			P042			

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Epoxystyrene	96-09-3	OSHA Carcinogen					
T	Erionite	12510-42-8	OSHA Carcinogen					
T	Erionite	66733-21-9	OSHA Carcinogen					
T	Estradiol-17B	50-28-2	OSHA Carcinogen					
T	Estragole	140-67-0	OSHA Carcinogen					
T	Estrogens, Conjugated (Indirect)	0-10-0	OSHA Carcinogen					
T	Estrogens, Nonsteroidal and Steroidal	0-11-0	OSHA Carcinogen					
T	Estrone	53-16-7	OSHA Carcinogen					
T	Estropipate	7280-37-7	OSHA Carcinogen					
T	Ethanal	75-07-0		U001				
T	Ethanamine, N,N-diethyl-	121-44-8		U404				
T	Ethanamine, N-ethyl-N-nitroso-	55-18-5		U174				
T	Ethane, 1,1,1,2-tetrachloro-	630-20-6		U208				
T	Ethane, 1,1,1-trichloro-	71-55-6		U226				
T	Ethane, 1,1,2,2-tetrachloro-	79-34-5		U209				
T	Ethane, 1,1,2-trichloro-	79-00-5		U227				
T	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-	111-91-1		U024				
T	Ethane, 1,1-dichloro-	75-34-3		U076				
T	Ethane, 1,1'-oxybis-	60-29-7		U117				
T	Ethane, 1,1'-oxybis[2-chloro-	111-44-4		U025				
T	Ethane, 1,2-dibromo-	06-93-4		U067				
T	Ethane, 1,2-dichloro-	107-06-2		U077				
T	Ethane, hexachloro-	67-72-1		U131				
T	Ethane, pentachloro-	76-01-7		U184				
T	Ethanedinitrile	460-19-5			P031			
T	Ethanethioamide	62-55-5		U218				
T	Ethanethiol						EH&S	

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Ethanimidothioc acid, 2-(dimethylamino)-N-[[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester.	23135-22-0			P194			
T	Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-,methyl ester.	30558-43-1		U394				
T	Ethanimidothioic acid, N,N'-[thiobis[(methylimino)carbonyloxy]]bis-, dimethyl ester	59669-26-0		U410				
T	Ethanimidothioic acid,N-[[[(methylamino)carbonyl]oxy]-,methyl ester	16752-77-5			P066			
T	Ethanol, 2,2'-(nitrosoimino)bis-	1116-54-7		U173				
T	Ethanol, 2,2'-oxybis-, dicarbamate.	5952-26-1		U395				
T	Ethanol, 2-ethoxy-	110-80-5		U359				
T	Ethanone, 1-phenyl-	98-86-2		U004				
T	Ethene, (2-chloroethoxy)-	110-75-8		U042				
T	Ethene, 1,1-dichloro-	75-35-4		U078				
T	Ethene, 1,2-dichloro-, (E)-	156-60-5		U079				
T	Ethene, chloro-	75-01-4		U043				
T	Ethene, tetrachloro-	127-18-4		U210				
T	Ethene, trichloro-	79-01-6		U228				
T	Ethinylestradiol	57-63-6	OSHA Carcinogen					
T	Ethion						EH&S	
T	Ethoprop	13194-48-4	OSHA Carcinogen					
T,F	Ethyl acetate	141-78-6		U112				
T	Ethyl Acrylate	140-88-5	OSHA Carcinogen	U113				
T	Ethyl Carbamate	51-79-6	OSHA Carcinogen	U238				
T	Ethyl Chloride	75-00-3	OSHA Carcinogen					
T	Ethyl Chlorocarbonate						EH&S	
T	Ethyl chloroformate						EH&S	
T,R	Ethyl cyanide	107-12-0			P101			

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T,F	Ethyl ether	60-29-7		U117				
T,F	Ethyl mercaptan						EH&S	
T	Ethyl methacrylate	97-63-2		U118				
T	Ethyl Methanesulfonate	62-50-0	OSHA Carcinogen	U119				
T	Ethyl-4,4'-dichlorobenzilate	510-15-6	OSHA Carcinogen					
T,F	Ethylbenzene	100-41-4	OSHA Carcinogen					
T	Ethyldichloroarsine						EH&S	
T,R	Ethyldichlorosilane						EH&S	
T	Ethylene cyanohydrin						EH&S	
T	Ethylene Dibromide	106-93-4	OSHA Carcinogen	U067				
T	Ethylene Dichloride	107-06-2	OSHA Carcinogen	U077				
T	Ethylene glycol monoethyl ether	110-80-5		U359				
T	Ethylene oxide	75-21-8	OSHA Carcinogen	U115				
T	Ethylene Thiourea	96-45-7	OSHA Carcinogen	U116				
T	Ethylenebisdithiocarbamic acid, salts & esters	111-54-6		U114				
T	Ethyleneimine	151-56-4	OSHA Carcinogen		P054			
T	Ethylidene dichloride	75-34-3		U076				
T	Ethylphenyldichlorosilane						EH&S	
T,R	Ethyltrichlorosilane						EH&S	
T	Etoposide	33419-42-0	OSHA Carcinogen					
T	exo-3-Chloro-endo-6-cyano-2-norbornanone-O-(methylcarbamoyl) oxime						EH&S	
T	EXOTHION						EH&S	
T	FAC						EH&S	
T	Famphur	52-85-7			P097			
T	Fenoxycarb	72490-01-8	OSHA Carcinogen					
T	Fensulfothion						EH&S	
T	Ferric arsenate						EH&S	

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T	Ferric Chromate, as Cr6+	10294-52-7	OSHA Carcinogen					
T	Ferrous arsenate						EH&S	
T	Firemaster BP-6 {PBBs}	59536-65-1	OSHA Carcinogen					
T	Firemaster FF-1 {PBBs}	67774-32-7	OSHA Carcinogen					
T	Fluoboric acid						EH&S	
T	Fluoranthene	206-44-0		U120				
T	Fluorine	7782-41-4			P056			CA BioAccu Inorganic
T	Fluoroacetamide	640-19-7			P057			
T	Fluoroacetanilide						EH&S	
T	Fluoroacetic acid, sodium salt	62-74-8			P058			
T	Fluoroboric Acid						EH&S	
T	Fluorsulfonic Acid						EH&S	
T	Folpet	133-07-3	OSHA Carcinogen					
T	Fonofos						EH&S	
T	Formaldehyde	50-00-0	OSHA Carcinogen	U122				
T	Formetanate hydrochloride.	23422-53-9			P198			
T	Formic acid	64-18-6		U123				
T	Formparanate.	17702-57-7			P197			
T	FOSTION						EH&S	
T	Fowler's Solution, as As3+	1327-53-3	OSHA Carcinogen					
T	Fuel Oil, Residual (Heavy)	68476-33-5	OSHA Carcinogen					
T	Fulminic acid, mercury(2+) salt	628-86-4			P065			
T	FUMARIN						EH&S	
T	Fumazone						EH&S	
T	Fuming Sulfuric Acid						EH&S	
T	FURADAN						EH&S	
T	Furan	110-00-9	OSHA Carcinogen	U124				

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T,F	Furan, tetrahydro-	109-99-9		U213				
T	Furathiazole	531-82-8	OSHA Carcinogen					
T	Furazolidone	67-45-8	OSHA Carcinogen					
T	Furfural	98-01-1		U125				
T	Furfuran	110-00-9		U124				
T	Furmecyclox	60568-05-0	OSHA Carcinogen					
T	Furniture and Cabinet Making	0-60-0	OSHA Carcinogen					
T	Fusarin C	79748-81-5	OSHA Carcinogen					
T	Gallium Arsenide	1303-00-0	OSHA Carcinogen					
T	Gamma Radiation	0-80-0	OSHA Carcinogen					
T	gamma-Hexachlorocyclohexane	58-89-9	OSHA Carcinogen					
T	Ganciclovir Sodium	82410-32-0	OSHA Carcinogen					
T,F	Gasoline	8006-61-9	OSHA Carcinogen					
	Gasoline Engine Exhaust (condensates/extracts)	0-48-0	OSHA Carcinogen					
T,F	Gasoline, Unleaded (wholly vaporized)	0-73-0	OSHA Carcinogen					
T	GB						EH&S	
T	Gemfibrozil	25812-30-0	OSHA Carcinogen					
T	Glasswool	0-14-0	OSHA Carcinogen					
T	Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D-	18883-66-4		U206				
T	Glu-P-1(2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole)	67730-11-4	OSHA Carcinogen					
T	Glu-P-2(2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	67730-10-3	OSHA Carcinogen					
T	Glycidaldehyde	765-34-4	OSHA Carcinogen					
T	Glycidol	556-52-5	OSHA Carcinogen					
T	Glycidylaldehyde	765-34-4		U126				
T	Griseofulvin	126-07-8	OSHA Carcinogen					
T	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7		U163				
T	Guthion						EH&S	

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T	Gyromitrin	16568-02-8	OSHA Carcinogen					
T	Hanane						EH&S	
T	HC Blue No.1	2784-94-3	OSHA Carcinogen					
T	Heptachlor	76-44-8	OSHA Carcinogen		P059	D031		CA BioAccu Organic
T	Heptachlor Epoxide	1024-57-3	OSHA Carcinogen					
T	Hexabromobiphenyl {PBBs}	67774-32-7	OSHA Carcinogen					
T	Hexachlorobenzene	118-74-1	OSHA Carcinogen	U127		D032		
T	Hexachlorobutadiene	87-68-3		U128		D033		
T	Hexachlorocyclohexane (technical grade)	608-73-1	OSHA Carcinogen					
T	Hexachlorocyclopentadiene	77-47-4		U130				
T	Hexachlorodibenzodioxin	34465-46-8	OSHA Carcinogen					
T	Hexachloroethane	67-72-1	OSHA Carcinogen	U131		D034		
T	Hexachlorophene	70-30-4		U132				
T	Hexachloropropene	1888-71-7		U243				
T	Hexadecyltrichlorosilane						EH&S	
T	Hexaethyl tetraphosphate	757-58-4			P062			
T	Hexamethylphosphoramide	680-31-9	OSHA Carcinogen					
T	Hexyltrichlorosilane						EH&S	
T,R	Hydrazine	302-01-2	OSHA Carcinogen	U133				
T	Hydrazine Sulfate	10034-93-2	OSHA Carcinogen					
T	Hydrazine, 1,1-dimethyl-	57-14-7		U098				
T	Hydrazine, 1,2-diethyl-	1615-80-1		U086				
T	Hydrazine, 1,2-dimethyl-	540-73-8		U099				
T	Hydrazine, 1,2-diphenyl-	122-66-7		U109				
T	Hydrazine, Diamine						EH&S	
T	Hydrazine, methyl-	60-34-4			P068			
T	Hydrazinecarbothioamide	79-19-6			P116			
T	Hydrazobenzene	122-66-7	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Hydriodic acid						EH&S	
T,C	Hydrobromic acid						EH&S	
T,C	Hydrochloric acid						EH&S	
T,C	Hydrocyanic acid	74-90-8			P063			
T,C	Hydrofluoric acid	7664-39-3		U134			EH&S	
T,C	Hydrogen Bromide						EH&S	
T,C	Hydrogen Chloride						EH&S	
T,R	Hydrogen cyanide	74-90-8			P063			
T,C	Hydrogen fluoride	7664-39-3		U134			EH&S	
T	Hydrogen Iodide						EH&S	
T	Hydrogen phosphide	7803-51-2			P096			
T	Hydrogen selenide						EH&S	
T,R	Hydrogen sulfide	7783-06-4		U135				
T	Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9		U096				
T	Hypochlorite compounds						EH&S	
T	Indeno[1,2,3-cd]pyrene	193-39-5		U137				
T	Indeno[1,2,3-cd]pyrene {PAH}	193-39-5	OSHA Carcinogen					
T	Indium Phosphide	22398-80-7	OSHA Carcinogen					
T	Inerteen						EH&S	
T	Inorganic Arsenic [1910.1018] - [see specific compound]	7440-38-2	OSHA Carcinogen					
T	Iprodione	36734-19-7	OSHA Carcinogen					
T	IQ(2-Amino-3-methylimidazo[4,5-f]quinoline)	76180-96-6	OSHA Carcinogen					
T	Iron (III) Chromate, as Cr6+	10294-52-7	OSHA Carcinogen					
T	Iron (III) Dichromate, as Cr6+ [water soluble]	10294-53-8	OSHA Carcinogen					
T	Iron and Steel Founding	0-61-0	OSHA Carcinogen					
T	Iron Arsenate						EH&S	
T	Iron Dextran Complex	9004-66-4	OSHA Carcinogen					
T	Isobenzan						EH&S	

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T,C	Isobutyl alcohol	78-83-1		U140				
T	Isobutyl Nitrite	542-56-3	OSHA Carcinogen					
T	Isodrin	465-73-6			P060			
T	Isolan.	119-38-0			P192			
T	Isopentadiene	78-79-5	OSHA Carcinogen					
T	Isoprene	78-79-5	OSHA Carcinogen					
T	Isopropyl Alcohol Manufacture (strong-acid process)	0-16-0	OSHA Carcinogen					
T	Isosafrole	120-58-1	OSHA Carcinogen	U141				
T	Isoxaflutole	141112-29-0	OSHA Carcinogen					
T	Kanechlor 500 {PCBs}	37317-41-2	OSHA Carcinogen					
T	Kepone	143-50-0	OSHA Carcinogen	U142				CA BioAccu Organic
T	Lactofen	77501-63-4	OSHA Carcinogen					
T	LAH						EH&S	
T	LANNATE						EH&S	
T	Lasiocarpine	303-34-4	OSHA Carcinogen	U143				
T	Lead Acetate	301-04-2	OSHA Carcinogen	U144				
T	Lead and/or lead compounds	7439-92-1	OSHA Carcinogen			D008		CA BioAccu Inorganic
T	Lead Antimonate (V)	13510-89-9	OSHA Carcinogen					
T	Lead arsenate						EH&S	
T	Lead Arsenate, as As3+	3687-31-8	OSHA Carcinogen					
T	Lead Arsenate, as As3+	7645-25-2	OSHA Carcinogen					
T	Lead Arsenate, as As3+	7784-40-9	OSHA Carcinogen					
T	Lead Arsenate, as As3+	10102-48-4	OSHA Carcinogen					
T	Lead Arsenite, as As3+	10031-13-7	OSHA Carcinogen					
T	Lead Azide	13424-46-9	OSHA Carcinogen					
T	Lead Borate	10214-39-8	OSHA Carcinogen					
T	Lead Bromate	34018-28-5	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Lead Bromide	10031-22-8	OSHA Carcinogen					
T	Lead Butyrate	819-73-8	OSHA Carcinogen					
T	Lead Chlorate	10294-47-0	OSHA Carcinogen					
T	Lead Chloride	7758-95-4	OSHA Carcinogen					
T	Lead Chromate Oxide, as Cr6+	18454-12-1	OSHA Carcinogen					
T	Lead Chromate, as Cr6+	7758-97-6	OSHA Carcinogen					
T	Lead Chromate, as Cr6+	8049-64-7	OSHA Carcinogen					
T, R	Lead cyanide						EH&S	
T	Lead Dioxide	1309-60-0	OSHA Carcinogen					
T	Lead Fluoride	7783-46-2	OSHA Carcinogen					
T	Lead Formate	811-54-1	OSHA Carcinogen					
T	Lead Hexafluorosilicate	25808-74-6	OSHA Carcinogen					
T,C	Lead Hydroxide	1311-11-1	OSHA Carcinogen					
T	Lead Hypophosphite	10294-58-3	OSHA Carcinogen					
T	Lead Iodide	10101-63-0	OSHA Carcinogen					
T	Lead Molybdate (VI)	10190-55-3	OSHA Carcinogen					
T	Lead Monoxide	1317-36-8	OSHA Carcinogen					
T	Lead Nitrate	10099-74-8	OSHA Carcinogen					
T	Lead Orthoarsenate						EH&S	
T	Lead Phosphate	7446-27-7	OSHA Carcinogen	U145				
T	Lead Selenate	7446-15-3	OSHA Carcinogen					
T	Lead Selenite	7488-51-9	OSHA Carcinogen					
T	Lead Sesquioxide	1314-27-8	OSHA Carcinogen					
T	Lead Sodium Thiosulfate	10101-94-7	OSHA Carcinogen					
T	Lead Subacetate	1335-32-6	OSHA Carcinogen	U146				
T	Lead Sulfate	7446-14-2	OSHA Carcinogen					
T	Lead Sulfide	1314-87-0	OSHA Carcinogen					
T	Lead Telluride	1314-91-6	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Lead Tetrafluoride	7783-59-7	OSHA Carcinogen					
T	Lead Tetraoxide	1314-41-6	OSHA Carcinogen					
T	Lead Thiocyanate	592-87-0	OSHA Carcinogen					
T	Lead Tungstate (VI)	7759-01-5	OSHA Carcinogen					
T	Lead Vanadate (V)	10099-79-3	OSHA Carcinogen					
T	Lead, bis(acetato-O)tetrahydroxytri-	1335-32-6		U146				
T	Leadhillite	1319-48-8	OSHA Carcinogen					
T	Lewisite						EH&S	
T	Lindane	58-89-9	OSHA Carcinogen	U129		D013		CA BioAccu Organic
T	Lithium						EH&S	
T,R	Lithium aluminum hydride						EH&S	
T	Lithium amide						EH&S	
T	Lithium Bichromate Dihydrate, as Cr6+ [water soluble]	0-17-0	OSHA Carcinogen					
T	Lithium Chromate, as Cr6+ [water soluble]	7789-01-7	OSHA Carcinogen					
T	Lithium Chromate, as Cr6+ [water soluble]	14307-35-8	OSHA Carcinogen					
T	Lithium Dichromate, as Cr6+ [water soluble]	13843-81-7	OSHA Carcinogen					
T	Lithium ferrosilicon						EH&S	
T,R,C	Lithium hydride						EH&S	
T,C	Lithium hypochlorite						EH&S	
T	Lithium Molybdate, as Mo [water soluble]	13568-40-6	OSHA Carcinogen					
T	Lomustine	13010-47-4	OSHA Carcinogen					
T	London purple, Mixture of arsenic trioxide, aniline, lime, and ferrous oxide						EH&S	
T	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-	148-82-3		U150				
T	L-Serine, diazoacetate (ester)	115-02-6		U015				
T	Lynestrenol	52-76-6	OSHA Carcinogen					
T	Magenta (containing C.I. Basic Red 9)	632-99-5	OSHA Carcinogen					
T	Magnesium						EH&S	

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Magnesium Arsenate	10103-50-1	OSHA Carcinogen					
T	Magnesium arsenate						EH&S	
T	Magnesium arsenite						EH&S	
T	Magnesium Chromate, as Cr6+ [water soluble]	13423-61-5	OSHA Carcinogen					
T	Maleic anhydride	108-31-6		U147				
T	Maleic anhydride						EH&S	
T	Maleic hydrazide	123-33-1		U148				
T	Malononitrile	109-77-3		U149				
T	Mancozeb	8018-01-7	OSHA Carcinogen					
T	Maneb	12427-38-2	OSHA Carcinogen					
T	Manganese arsenate						EH&S	
T	Manganese dimethyldithiocarbamate.	15339-36-3			P196			
T	Manganese,bis(dimethylcarbamo dithioato-S,S')-,	15339-36-3			P196			
T	Manganous arsenate						EH&S	
T	Marine Diesel Fuel	0-18-0	OSHA Carcinogen					
T	MARLATE						EH&S	
T	m-Arsenic Acid	10102-53-1	OSHA Carcinogen					
T	MBOCA	101-14-4	OSHA Carcinogen					
T	m-Cresol	108-39-4				D024		
T	m-Cumenyl methylcarbamate.	64-00-6			P202			
T	m-Dichlorobenzene	541-73-1		U071				
T	MeA-alpha-C(2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	68006-83-7	OSHA Carcinogen					
T	MECARBAM						EH&S	
T	MeCCNU	13909-09-6	OSHA Carcinogen					
T	Mechlorethamine	51-75-2	OSHA Carcinogen					
T	Mechlorethamine Hydrochloride	55-86-7	OSHA Carcinogen					
T	Medinoterb acetate						EH&S	
T	Medroxyprogesterone Acetate	71-58-9	OSHA Carcinogen					

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	MelQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)	77094-11-2	OSHA Carcinogen					
T	MelQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	77500-04-0	OSHA Carcinogen					
T	Melphalan	148-82-3	OSHA Carcinogen	U150				
T	Mercuric chloride						EH&S	
T	Mercuric Chromate, as Cr6+	13444-75-2	OSHA Carcinogen					
T,R	Mercuric cyanide						EH&S	
T	Mercuric Dichromate, as Cr6+	7789-10-8	OSHA Carcinogen					
T	Mercury (II) Chromate, as Cr6+	13444-75-2	OSHA Carcinogen					
T	Mercury (II) Dichromate, as Cr6+	7789-10-8	OSHA Carcinogen					
T	Mercury and/or mercury compounds	7439-97-6		U151		D009		CA BioAccu Inorganic
T	Mercury Chloride						EH&S	
T,R	Mercury Cyanide						EH&S	
T	Mercury fulminate (R,T)	628-86-4			P065			
T	Mercury, (acetato-O)phenyl-	62-38-4			P092			
T	Merphalan	531-76-0	OSHA Carcinogen					
T	Mestranol	72-33-3	OSHA Carcinogen					
T	meta-Isopropylphenyl-N-methylcarbamate, Ac 5,727						EH&S	
T	METAISOSYSTOX-SULFON						EH&S	
T	Methacrylonitrile	126-98-7		U152				
T	Metham Sodium	137-42-8	OSHA Carcinogen					
T	Methanamine, N-methyl-	124-40-3		U092				
T	Methanamine, N-methyl-N-nitroso-	62-75-9			P082			
T	Methane Dichloride [1910.1052]	75-09-2	OSHA Carcinogen					
T	Methane, bromo-	74-83-9		U029				
T	Methane, chloro-	74-87-3		U045				
T	Methane, chloromethoxy-	107-30-2		U046				
T	Methane, dibromo-	74-95-3		U068				

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Methane, dichloro-	75-09-2		U080				
T	Methane, dichlorodifluoro-	75-71-8		U075				
T	Methane, iodo-	74-88-4		U138				
T	Methane, isocyanato-	624-83-9			P064			
T	Methane, oxybis[chloro-	542-88-1			P016			
T	Methane, tetrachloro-	56-23-5		U211				
T	Methane, tetranitro- (R)	509-14-8			P112			
T	Methane, tribromo-	75-25-2		U225				
T	Methane, trichloro-	67-66-3		U044				
T	Methane, trichlorofluoro-	75-69-4		U121				
T	Methane-d2 Dichloride {CD2Cl2} [1910.1052]	1665-00-5	OSHA Carcinogen					
T	Methanesulfonic acid, ethyl ester	62-50-0		U119				
T	Methanethiol	74-93-1		U153				
T	Methanethiol, trichloro-	75-70-7			P118			
T	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]-	17702-57-7			P197			
T	Methanimidamide, N,N-dimethyl-N'-[3-[[[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride.	23422-53-9			P198			
T,F	Methanol	67-56-1		U154				
T	Methapyrilene	91-80-5		U155				
T	Methiocarb.	2032-65-7			P199			
T	Methomyl	16752-77-5			P066			
T	Methoxsalen	298-81-7	OSHA Carcinogen					
T	Methoxsalen plus UV A radiation	298-81-7	OSHA Carcinogen					
T	Methoxychlor	72-43-5		U247		D014		CA BioAccu Organic
T	Methoxyethylmercuric chloride						EH&S	
T	Methyl alcohol	67-56-1		U154				
T	Methyl bromide	74-83-9		U029				

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Methyl Carbamate	598-55-0	OSHA Carcinogen					
T	Methyl chloride	74-87-3		U045				
T	Methyl chlorocarbonate	79-22-1		U156				
T	Methyl chloroform	71-55-6		U226				
T	Methyl chloroformate						EH&S	
T,F	Methyl chloromethyl ether						EH&S	
T,F	Methyl ethyl ketone (MEK)	78-93-3		U159		D035		
T,F	Methyl ethyl ketone peroxide	1338-23-4		U160				
T,F	Methyl Hydrazine (and its salts)	60-34-4	OSHA Carcinogen		P068			
T	Methyl Iodide	74-88-4	OSHA Carcinogen	U138				
T,F	Methyl isobutyl ketone	108-10-1		U161				
T,F	Methyl isocyanate	624-83-9			P064			
T	Methyl methacrylate	80-62-6		U162				
T	Methyl Methanesulfonate	66-27-3	OSHA Carcinogen					
T	Methyl parathion	298-00-0			P071			
T	Methyl Sulfate						EH&S	
T,R	Methyl Sulfide						EH&S	
T	Methyl Yellow						EH&S	
T	Methylaluminum sesquibromide						EH&S	
T	Methylaluminum sesquichloride						EH&S	
T	Methylazoxymethanol	590-96-5	OSHA Carcinogen					
T	Methylazoxymethanol Acetate	592-62-1	OSHA Carcinogen					
T	Methyl-CCNU	13909-09-6	OSHA Carcinogen					
T	Methylchloro Methyl Ether	107-30-2	OSHA Carcinogen					
T	Methyldichloroarsine						EH&S	
T	Methyldichlorosilane						EH&S	
T	Methylene bromide	74-95-3		U068				
T,F	Methylene chloride	75-09-2		U080				

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T,F	Methylene Chloride [1910.1052]	75-09-2	OSHA Carcinogen					
T	Methylene-d2 Chloride {CD2Cl2} [1910.1052]	1665-00-5	OSHA Carcinogen					
T	Methyleugenol	93-15-2	OSHA Carcinogen					
T	Methylmagnesium bromide						EH&S	
T	Methylmagnesium chloride						EH&S	
T	Methylmagnesium iodide						EH&S	
T	Methylmercury Chloride	115-09-3	OSHA Carcinogen					
T	Methylmercury compounds	0-53-0	OSHA Carcinogen					
T	Methylmercury Dicyandiamide	502-39-6	OSHA Carcinogen					
T	Methyl-o-anisidine	120-71-8	OSHA Carcinogen					
T	Methylthiouracil	56-04-2	OSHA Carcinogen	U164				
T,R	Methyltrichlorosilane						EH&S	
T	Metiram	9006-42-2	OSHA Carcinogen					
T	Metolcarb.	1129-41-5			P190			
T	Metronidazole	443-48-1	OSHA Carcinogen					
T	Mevinphos						EH&S	
T	Mexacarbate.	315-8-4			P128			
T	MGK Repellant 326	136-45-8	OSHA Carcinogen					
T	Michler's Base	101-61-1	OSHA Carcinogen					
T	Michler's Ketone	90-94-8	OSHA Carcinogen					
T	Mineral Oil Mist (mildly refined; containing 15 PAHs listed by the NTP)	0-28-0	OSHA Carcinogen					
T	Mineral Oils (untreated and mildly-treated)	8002-05-9	OSHA Carcinogen					
T	MINTACOL						EH&S	
T	Mirex	2385-85-5	OSHA Carcinogen					CA BioAccu Organic
T	Mitomycin C	50-07-7	OSHA Carcinogen	U010				
T	Mitoxantrone	65271-80-9	OSHA Carcinogen					
T	MMH						EH&S	

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	MNNG	70-25-7	OSHA Carcinogen					
T	MNNG	70-25-7		U163				
T	MOCA	101-14-4	OSHA Carcinogen					
T	MOCAP						EH&S	
T	Molybdenum and/or molybdenum compounds	1313-27-5	OSHA Carcinogen					CA BioAccu Inorganic
T	Molybdenum Dichloride Dioxide, as Mo [water soluble]	13637-68-8	OSHA Carcinogen					
T	Molybdenum Hexafluoride, as Mo [water soluble]	7783-77-9	OSHA Carcinogen					
T	Molybdenum Orange, as Cr6+	8005-36-5	OSHA Carcinogen					
T	Molybdenum Orange, as Cr6+	12213-61-5	OSHA Carcinogen					
T	Molybdenum Orange, as Cr6+	12656-85-8	OSHA Carcinogen					
T	Molybdenum Orange, as Cr6+	12709-98-7	OSHA Carcinogen					
T	Molybdenum Orange, as Cr6+	64523-06-4	OSHA Carcinogen					
T	Molybdenum Oxytetrachloride, as Mo [water soluble]	13814-75-0	OSHA Carcinogen					
T	Molybdenum Trioxide, as Mo [water soluble]	1313-27-5	OSHA Carcinogen					
T	Molybdenum Trisulfide, as Mo [water soluble]	12033-29-3	OSHA Carcinogen					
T	Molybdenum, as Mo (soluble compounds)M - [see specific compound]	7439-98-7	OSHA Carcinogen					
T	Molybdic Acid Anhydride, as Mo [water soluble]	1313-27-5	OSHA Carcinogen					
T	Molybdic Acid, 85%; Hexammonium Salt, as Mo [water soluble]	12027-67-7	OSHA Carcinogen					
T	Molybdic Acid, Dilithium Salt, as Mo [water soluble]	13568-40-6	OSHA Carcinogen					
T	Monochlorodimethyl Ether	107-30-2	OSHA Carcinogen					
T	Monocrotaline	315-22-0	OSHA Carcinogen					
T	Monomethyl Hydrazine						EH&S	
T	Muriatic Acid						EH&S	
T	Mustard Gas	505-60-2	OSHA Carcinogen					
T	MX(3-chloro-4-dichloromethyl-5-hydroxy-2(5H)-furanone)	77439-76-0	OSHA Carcinogen					

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T	Myleran	55-98-1	OSHA Carcinogen					
T	N, N-Diethyldithiocarbamic Acid 2-Chloroallyl Ester	95-06-7	OSHA Carcinogen					
T	N,N-bis(2-Chloroethyl)-2-naphthylamine	494-03-1	OSHA Carcinogen					
T	N,N'-Diacetylbenzidine	613-35-4	OSHA Carcinogen					
T	N,N'-Diethylhydrazine	1615-80-1		U086				
T	N,N-Dimethylnitrosoamine	62-75-9	OSHA Carcinogen					
T	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	531-82-8	OSHA Carcinogen					
T	Nafenopin	3771-19-5	OSHA Carcinogen					
T	Nalidixic Acid	389-08-2	OSHA Carcinogen					
T	Naphthalenamine, N,N'-bis(2-chloroethyl)-	494-03-1		U026				
T	Naphthalene	91-20-3		U165				
T	Naphthalene, 2-chloro-	91-58-7		U047				
T,F	n-Butyl alcohol	71-36-3		U031				
T,R	n-Butyllithium (and isomers)						EH&S	
T,R	n-Butyltrichlorosilane						EH&S	
T	N-Carboxymethyl-N-nitrosourea	60391-92-6	OSHA Carcinogen					
T	NDEA	55-18-5	OSHA Carcinogen					
T	Nemagon						EH&S	
T	Neodymium Chromate Heptahydrate, as Cr6+	16569-87-2	OSHA Carcinogen					
T	Neodymium Chromate, as Cr6+	16565-95-0	OSHA Carcinogen					
T	N-Ethyl-N-nitrosourea	759-73-9	OSHA Carcinogen					
T	Neutrons	0-81-0	OSHA Carcinogen					
T	NIA 10,242						EH&S	
T	NIALATE						EH&S	
T	Nickel (II) Nitrate Hexahydrate, as Ni [water soluble]	13478-00-7	OSHA Carcinogen					
T	Nickel Acetate [water soluble]	373-02-4	OSHA Carcinogen					
T	Nickel Acetylacetonate [water soluble]	3264-82-2	OSHA Carcinogen					
T	Nickel and/or nickel compounds						EH&S	CA BioAccu

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
								Inorganic
T	Nickel arsenate, Nickelous arsenate						EH&S	
T	Nickel Bromide [water soluble]	13462-88-9	OSHA Carcinogen					
T	Nickel Carbonate	3333-67-3	OSHA Carcinogen					
T,C	Nickel Carbonate Hydroxide	12607-70-4	OSHA Carcinogen					
T,R	Nickel Carbonyl	13463-39-3	OSHA Carcinogen		P073			
T,C	Nickel Chloride [water soluble]	7718-54-9	OSHA Carcinogen					
T,R	Nickel Cyanide	557-19-7	OSHA Carcinogen		P074			
T	Nickel Dimethylglyoxime	13478-93-8	OSHA Carcinogen					
T	Nickel Fluoride [water soluble]	10028-18-9	OSHA Carcinogen					
T	Nickel Formate [water soluble]	3349-06-2	OSHA Carcinogen					
T,C	Nickel Hydroxide	12054-48-7	OSHA Carcinogen					
T,C	Nickel Hydroxide	12125-56-3	OSHA Carcinogen					
T,C	Nickel Hydroxide [water soluble]	11113-74-9	OSHA Carcinogen					
T	Nickel Iodide [water soluble]	13462-90-3	OSHA Carcinogen					
T,R	Nickel metal powder & Ni alloys/compounds, as Ni - [see specific compound]	7440-02-0	OSHA Carcinogen					
T	Nickel Monoxide	1313-99-1	OSHA Carcinogen					
T	Nickel Nitrate [water soluble]	13138-45-9	OSHA Carcinogen					
T	Nickel Oxalate	547-67-1	OSHA Carcinogen					
T	Nickel Oxide	1313-99-1	OSHA Carcinogen					
T	Nickel Perchlorate Hexahydrate [water soluble]	13520-61-1	OSHA Carcinogen					
T	Nickel Phosphate	10381-36-9	OSHA Carcinogen					
T	Nickel Refinery Dust (from the pyrometallurgical process)	0-67-0	OSHA Carcinogen					
T	Nickel Sesquioxide	1314-06-3	OSHA Carcinogen					
T	Nickel Subsulfide	12035-72-2	OSHA Carcinogen					
T	Nickel Sulfamate	13770-89-3	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Nickel Sulfate [water soluble]	7786-81-4	OSHA Carcinogen					
T	Nickel-Beryllium Alloy, as Ni fume or dust [also see Be]	37227-61-5	OSHA Carcinogen					
T	Nickelocene	1271-28-9	OSHA Carcinogen					
T	Nicotine, & salts	54-11-5			P075			
T	Niridazole	61-57-4	OSHA Carcinogen					
T,C	Nitric acid, thallium(1+) salt	10102-45-1		U217				
T	Nitric oxide	10102-43-9			P076			
T	Nitrilotriacetic Acid (and its salts)	139-13-9	OSHA Carcinogen					
T	Nitrilotriacetic Acid , Sodium Salt (unspecified)	10042-84-9	OSHA Carcinogen					
T	Nitrilotriacetic Acid, Disodium Salt	15467-20-6	OSHA Carcinogen					
T	Nitrilotriacetic Acid, Disodium Salt, Hydrate	23255-03-0	OSHA Carcinogen					
T	Nitrilotriacetic Acid, Monosodium Salt	18994-66-6	OSHA Carcinogen					
T	Nitrilotriacetic Acid, Trisodium Salt	5064-31-3	OSHA Carcinogen					
T	Nitrilotriacetic Acid, Trisodium Salt, Hydrate	18662-53-8	OSHA Carcinogen					
T,F	Nitrobenzene	98-95-3	OSHA Carcinogen	U169		D036		
T	Nitrobenzol						EH&S	
T	Nitrofen (technical grade)	1836-75-5	OSHA Carcinogen					
T	Nitrofurazone	59-87-0	OSHA Carcinogen					
T	Nitrogen dioxide	10102-44-0			P078			
T	Nitrogen Mustard	51-75-2	OSHA Carcinogen					
T	Nitrogen Mustard Hydrochloride	55-86-7	OSHA Carcinogen					
T	Nitrogen Mustard N-oxide	126-85-2	OSHA Carcinogen					
T	Nitrogen Mustard N-oxide Hydrochloride	302-70-5	OSHA Carcinogen					
T	Nitrogen oxide NO	10102-43-9			P076			
T	Nitroglycerine	55-63-0			P081			
T,F	Nitromethane	75-52-5	OSHA Carcinogen					
T,F	Nitrophenol (ortho, meta, para)						EH&S	
T	N-Methyl-bis(2-chloroethyl) Amine	51-75-2	OSHA Carcinogen					

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7	OSHA Carcinogen					
T	N-Methyl-N-nitrosoourea	684-93-5	OSHA Carcinogen					
T	N-Methyl-N-nitrosoourethane	615-53-2	OSHA Carcinogen					
T	N-Methylolacrylamide	924-42-5	OSHA Carcinogen					
T	N-Nitrosodiethanolamine	1116-54-7	OSHA Carcinogen	U173				
T	N-Nitrosodiethylamine	55-18-5	OSHA Carcinogen	U174				
T	N-Nitrosodimethylamine	62-75-9	OSHA Carcinogen		P082			
T	N-Nitrosodi-n-butylamine	924-16-3	OSHA Carcinogen	U172				
T	N-Nitrosodi-n-propylamine	621-64-7	OSHA Carcinogen					
T	N-Nitrosodiphenylamine	86-30-6	OSHA Carcinogen					
T	N-Nitrosomethylethylamine	10595-95-6	OSHA Carcinogen					
T	N-Nitrosomethylvinylamine	4549-40-0	OSHA Carcinogen		P084			
T	N-Nitrosomorpholine	59-89-2	OSHA Carcinogen					
T	N-Nitroso-n-butyl-N-(3-carboxypropyl)amine	38252-74-3	OSHA Carcinogen					
T	N-Nitroso-n-butyl-N-(4-hydroxybutyl)amine	3817-11-6	OSHA Carcinogen					
T	N-Nitroso-N-ethylurea	759-73-9	OSHA Carcinogen	U176				
T	N-Nitroso-N-methylurea	684-93-5	OSHA Carcinogen	U177				
T	N-Nitroso-N-methylurethane	615-53-2	OSHA Carcinogen	U178				
T	N'-Nitrosornicotine	16543-55-8	OSHA Carcinogen					
T	N-Nitrosopiperidine	100-75-4	OSHA Carcinogen	U179				
T	N-Nitrosopyrrolidine	930-55-2	OSHA Carcinogen	U180				
T	N-Nitrososarcosine	13256-22-9	OSHA Carcinogen					
T	NNK	64091-91-4	OSHA Carcinogen					
T	Non-Arsenical Insecticides (occ. exposures in spraying and application of)	0-62-0	OSHA Carcinogen					
T	Nonyltrichlorosilane						EH&S	
T	Norethindrone	68-22-4	OSHA Carcinogen					
T	Norethisterone	68-22-4	OSHA Carcinogen					

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T	Norethynodrel	68-23-5	OSHA Carcinogen					
T	n-Propylamine	107-10-8		U194				
T	n-Propyltrichlorosilane						EH&S	
T	O,O,O',O'-Tetraethyl-S,S-methylenediphosphorodithioate						EH&S	
T	O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2			P040			
T	O,O-Diethyl S-(N-ethoxycarbonyl N-methylcarbamoyl) phosphorodithioate						EH&S	
T	O,O-Diethyl S-methyl dithiophosphate	3288-58-2		U087				
T	O,O-Diethyl-O-[4-(methylsulfinyl)phenyl]phosphorothioate						EH&S	
T	O,O-Diethyl-O-para-nitrophenylphosphate						EH&S	
T	O,O-Diethyl-S-(isopropylthiomethyl) phosphorodithioate						EH&S	
T	O,O-Diethyl-S-carboethoxy-ethyl phosphorodithioate						EH&S	
T	O,O-Dimethyl-O-para-nitrophenyl—phosphorothioate						EH&S	
T	O,O-Dimethyl-S-4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl phosphorodithioate						EH&S	
T	O,O-Tetramethylthiuram monosulfide						EH&S	
T	o-Aminoazotoluene	97-56-3	OSHA Carcinogen					
T	o-Anisidine	90-04-0	OSHA Carcinogen					
T	o-Anisidine	29191-52-4	OSHA Carcinogen					
T	o-Anisidine Hydrochloride	134-29-2	OSHA Carcinogen					
T	o-Arsenic Acid	7778-39-4	OSHA Carcinogen					
T	o-Chlorophenol	95-57-8		U048				
T	Ochratoxin A	303-47-9	OSHA Carcinogen					
T	OCMB						EH&S	
T	o-Cresol	95-48-7				D023		
T	Octabromobiphenyl {PBBs}	61288-13-9	OSHA Carcinogen					
T	Octadecyltrichlorosilane						EH&S	

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T	Octamethylpyrophosphoramidate	152-16-9			P085			
T	Octyltrichlorosilane						EH&S	
T	o-Dianisidine Based Dyes	119-90-4	OSHA Carcinogen					
T	o-Dianisidine Dihydrochloride	20325-40-0	OSHA Carcinogen					
T	o-Dichlorobenzene	95-50-1		U070				
T	EH&Strogens, Nonsteroidal and Steroidal	0-11-0	OSHA Carcinogen					
T	O-Ethyl O-para-nitrophenyl phenylphosphonothioate						EH&S	
T	O-Ethyl-S,S-dipropyl phosphorodithioate						EH&S	
T	O-Ethyl-S-phenylethyl phosphonodithioate						EH&S	
T	Oil Mist, Mineral (mildly refined; containing 15 PAHs listed by the NTP)	0-28-0	OSHA Carcinogen					
T	Oil Orange SS	2646-17-5	OSHA Carcinogen					
T	O-Isopropyl methyl phosphoryl fluoride						EH&S	
T	Oleum						EH&S	
T	OMPA						EH&S	
T	o-Nitroanisole	91-23-6	OSHA Carcinogen					
T,F	o-Nitrotoluene	88-72-2	OSHA Carcinogen					
T	O-para-Cyanophenyl-O-ethyl phenyl phosphonothioate						EH&S	
T	o-Phenylenediamine (and its salts)	95-54-5	OSHA Carcinogen					
T	o-Phenylphenate, Sodium	132-27-4	OSHA Carcinogen					
T	o-Phenylphenol	90-43-7	OSHA Carcinogen					
T	ortho,ortho-Diethyl-ortho-(3-chloro-4-methylcoumarin-7-yl) phosphate						EH&S	
T	ortho-Chlorobenzylidene malonitrile						EH&S	
T	Orthozenol						EH&S	
T	Osmium tetroxide	20816-12-0			P087			
T	o-Tolidine	119-93-7	OSHA Carcinogen					

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T	o-Toluidine	95-53-4	OSHA Carcinogen	U328				
T	o-Toluidine Hydrochloride	636-21-5	OSHA Carcinogen	U222				
T	Oxadiazon	19666-30-9	OSHA Carcinogen					
T	Oxamyl.	23135-22-0			P194			
T	Oxazepam	604-75-1	OSHA Carcinogen					
T	Oxirane	75-21-8		U115				
T	Oxirane, (chloromethyl)-	106-89-8		U041				
T	Oxiranecarboxyaldehyde	765-34-4		U126				
T	Oxygen difluoride						EH&S	
T	Oxymetholone	434-07-1	OSHA Carcinogen					
T	Oxythioquinox	2439-01-2	OSHA Carcinogen					
T	p,p'-DDT	50-29-3	OSHA Carcinogen					
T	p-a,a,a-Tetrachlorotoluene	5216-25-1	OSHA Carcinogen					
T	PAH {5-Methylchrysene}	3697-24-3	OSHA Carcinogen					
T	PAH {7H-Dibenzo[c,g]carbazole}	194-59-2	OSHA Carcinogen					
T	PAH {Benz[a]anthracene}	56-55-3	OSHA Carcinogen					
T	PAH {Benzo[a]pyrene}	50-32-8	OSHA Carcinogen					
T	PAH {Benzo[b]fluoranthene}	205-99-2	OSHA Carcinogen					
T	PAH {Benzo[j]fluoranthene}	205-82-3	OSHA Carcinogen					
T	PAH {Benzo[k]fluoranthene}	207-08-9	OSHA Carcinogen					
T	PAH {Dibenz[a,h]acridine}	226-36-8	OSHA Carcinogen					
T	PAH {Dibenz[a,h]anthracene}	53-70-3	OSHA Carcinogen					
T	PAH {Dibenz[a,i]acridine}	224-42-0	OSHA Carcinogen					
T	PAH {Dibenzo[a,e]pyrene}	192-65-4	OSHA Carcinogen					
T	PAH {Dibenzo[a,h]pyrene}	189-64-0	OSHA Carcinogen					
T	PAH {Dibenzo[a,i]pyrene}	189-55-9	OSHA Carcinogen					
T	PAH {Dibenzo[a,l]pyrene}	191-30-0	OSHA Carcinogen					
T	PAH {Indeno[1,2,3-cd]pyrene}	193-39-5	OSHA Carcinogen					

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T	PAH {Polycyclic Aromatic Hydrocarbon(s); see 15 specific chemicals}	0-50-0	OSHA Carcinogen					
T	Painter (occ. exposure as a)	0-45-0	OSHA Carcinogen					
T	Palygorskite (long fibers, > 5 µm)	12174-11-7	OSHA Carcinogen					
T	p-Aminoazobenzene	60-09-3	OSHA Carcinogen					
T	Panfuran S (containing dihydroxymethylfuratrizine)	794-93-4	OSHA Carcinogen					
T	para-(5-Amino-3-phenyl-1H-1,2,4-triazol-1-yl)-N,N',N'-tetramethylphosphonic diamide						EH&S	
T	Paraformaldehyde	30525-89-4	OSHA Carcinogen					
T	Paraldehyde	123-63-7						
T	Para-oxon						EH&S	
T	Parathion	56-38-2			P089			
T	Paris green						EH&S	
T	Particulate Polycyclic Aromatic Hydrocarbons [PPAH]	65996-93-2	OSHA Carcinogen					
T	PBBs {Polybrominated Biphenyls}	67774-32-7	OSHA Carcinogen					
T	p-Benzoquinone	106-51-4		U197				
T	PCBs {Polychlorinated Biphenyls}	1336-36-3	OSHA Carcinogen					
T	p-Chloroaniline	106-47-8	OSHA Carcinogen		P024			
T	p-Chloroaniline Hydrochloride	20265-96-7	OSHA Carcinogen					
T	p-Chloro-m-cresol	59-50-7		U039				
T	p-Chloro-o-toluidine (and its strong acid salts)	95-69-2	OSHA Carcinogen					
T	p-Chloro-o-toluidine Hydrochloride	3165-93-3	OSHA Carcinogen					
T	p-Cresidine	120-71-8	OSHA Carcinogen					
T	p-Cresol	106-44-5				D025		
T	p-Dichlorobenzene	106-46-7	OSHA Carcinogen	U072				
T	p-Dimethylaminoazobenzene	60-11-7	OSHA Carcinogen	U093				
T	PENSAL						EH&S	
T	Pentaborane						EH&S	

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T	Pentachlorobenzene	608-93-5		U183				
T	Pentachloroethane	76-01-7		U184				
T	Pentachloronitrobenzene (PCNB)	82-68-8		U185				
T,F	Pentachlorophenol	87-86-5	OSHA Carcinogen	F027				CA BioAccu Organic
T	Pentanol, 4-methyl-	108-10-1		U161				
T	Pentachlorophenol	87-86-5				D037		
T	Perchloroethylene	127-18-4	OSHA Carcinogen					
T	Perchloromethyl mercaptan						EH&S	
T	Pextox 14						EH&S	
T	Phenacetin	62-44-2	OSHA Carcinogen	U187				
T	Phenacetin contained in analgesic mixtures	0-20-0	OSHA Carcinogen					
T	Phenarsazine Chloride						EH&S	
T	Phenazopyridine	94-78-0	OSHA Carcinogen					
T	Phenazopyridine Hydrochloride	136-40-3	OSHA Carcinogen					
T	Phenesterin	3546-10-9	OSHA Carcinogen					
T	Phenobarbital	50-06-6	OSHA Carcinogen					
T	Phenol	108-95-2		U188				
T	Phenol, (3,5-dimethyl-4-(methylthio)-,methylcarbamate	2032-65-7			P199			
T	Phenol, 2-(1-methylethoxy)-,	114-26-1		U411				
T	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	88-85-7			P020			
T	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	70-30-4		U132				
T	Phenol, 2,3,4,6-tetrachloro-	58-90-2		F027				
T	Phenol, 2,4,5-trichloro-	95-95-4		F027				
T	Phenol, 2,4,6-trichloro-	88-06-2		F027				
T	Phenol, 2,4,6-trinitro-, ammonium salt ®	131-74-8			P009			
T	Phenol, 2,4-dichloro-	120-83-2		U081				
T	Phenol, 2,4-dimethyl-	105-67-9		U101				
T	Phenol, 2,4-dinitro-	51-28-5			P048			

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T	Phenol, 2,6-dichloro-	87-65-0		U082				
T	Phenol, 2-chloro-	95-57-8		U048				
T	Phenol, 2-cyclohexyl-4,6-dinitro-	131-89-5			P034			
T	Phenol, 2-methyl-4,6-dinitro-, & salts	534-52-1			P047			
T	Phenol, 3-(1-methylethyl)-, methylcarbamate.	64-00-6			P202			
T	Phenol, 3-methyl-5-(1-methylethyl)-,methyl carbamate.	2631-37-0			P201			
T	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester).	315-18-4			P128			
T	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-	56-53-1		U089				
T	Phenol, 4-chloro-3-methyl-	59-50-7		U039				
T	Phenol, 4-nitro-	100-02-7		U170				
T	Phenol, methyl-	1319-77-3		U052				
T,F	Phenol, pentachloro-	87-86-5		F027				
T	Phenolphthalein	77-09-8	OSHA Carcinogen					
T	Phenoxybenzamine	59-96-1	OSHA Carcinogen					
T	Phenoxybenzamine Hydrochloride	63-92-3	OSHA Carcinogen					
T	Phenyl chloromethyl ketone						EH&S	
T	Phenyl Glycidyl Ether	122-60-1	OSHA Carcinogen					
T	Phenylbenzene						EH&S	
T	Phenyldichloroarsine						EH&S	
T	Phenylethylene	100-42-5	OSHA Carcinogen					
T	Phenylhydrazine (and its salts)	100-63-0	OSHA Carcinogen					
T	Phenylmercury acetate	62-38-4			P092			
T	Phenylphenol						EH&S	
T	Phenylthiourea	103-85-5			P093			
T	Phenyltrichorosilane						EH&S	
T	Phenytoin	57-41-0	OSHA Carcinogen					
T	Phenytoin (sodium salt)	630-93-3	OSHA Carcinogen					

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T	PhIP (2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine)	105650-23-5	OSHA Carcinogen					
T	Phorate	298-02-2			P094			
T	PHOSDRIN						EH&S	
T	Phosfolan						EH&S	
T	Phosgene	75-44-5			P095			
T	Phosphoryl Bromide						EH&S	
T	Phosphamidon						EH&S	
T	Phosphine	7803-51-2			P096			
T	Phosphomolybdic Acid Hydrate, as Mo [water soluble]	51429-74-4	OSHA Carcinogen					
T	Phosphomolybdic Acid, as Mo [water soluble]	11104-88-4	OSHA Carcinogen					
T	Phosphomolybdic Acid, as Mo [water soluble]	12026-57-2	OSHA Carcinogen					
T	Phosphoric acid, diethyl 4-nitrophenylester	311-45-5			P041			
T	Phosphoric acid, lead(2+) salt (2:3)	7446-27-7		U145				
T	Phosphoric Chloride						EH&S	
T,R,C	Phosphoric Sulfide						EH&S	
T	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	298-04-4			P039			
T	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)methyl] ester	298-02-2			P094			
T	Phosphorodithioic acid, O,O-diethyl S-methyl ester	3288-58-2		U087				
T	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	60-51-5			P044			
T	Phosphorofluoridic acid, bis(1-methylethyl) ester	55-91-4			P043			
T	Phosphorothioic acid, O,O,-dimethyl O(4-nitrophenyl) ester	298-00-0			P071			
T	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	56-38-2			P089			
T	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	297-97-2			P040			

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T	Phosphorothioic acid,O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester	52-85-7			P097			
T,R,C	Phosphorus (as 32P, as phosphate)	0-82-0	OSHA Carcinogen					
T,R,C	Phosphorus (white or yellow)						EH&S	
T,R,C	Phosphorus oxybromide						EH&S	
T,R,C	Phosphorus oxychloride						EH&S	
T,R,C	Phosphorus pentachloride						EH&S	
T,R,C	Phosphorus pentasulfide						EH&S	
T,R,C	Phosphorus sesquisulfide						EH&S	
T,R,C	Phosphorus sulfide	1314-80-3		U189				
T,R,C	Phosphorus tribromide						EH&S	
T,R,C	Phosphorus trichloride						EH&S	
T,R,C	Phosphoryl Chloride						EH&S	
T	PHOSTOXIN						EH&S	
T	Phthalic anhydride	85-44-9		U190				
T	Physostigmine salicylate.	57-64-7			P188			
T	Physostigmine.	57-47-6			P204			
T	Piperazine Estrone Sulfate	7280-37-7	OSHA Carcinogen					
T	Piperidine, 1-nitroso-	100-75-4		U179				
T	Platinum compounds						EH&S	
T	Plumbane, tetraethyl-	78-00-2			P110			
T	Plutonium (as 239Pu, and its decay products [may contain other isotopes], as aerosols)	0-83-0	OSHA Carcinogen					
T,F	p-Nitroaniline	100-01-6			P077			
T,F	p-Nitrophenol	100-02-7		U170				
T	p-Nitrosodiphenylamine	156-10-5	OSHA Carcinogen					
T	Polybrominated Biphenyls {PBBs}	59536-65-1	OSHA Carcinogen					
T	Polybrominated Biphenyls {PBBs}	67774-32-7	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Polychlorinated Biphenyls {PCBs}	1336-36-3	OSHA Carcinogen					CA BioAccu Organic
T	Polychlorinated Dibenzofurans	0-69-0	OSHA Carcinogen					
T	Polychlorinated Dibenzo-p-dioxins	0-68-0	OSHA Carcinogen					
T	Polychlorocamphene						EH&S	
T	Polychlorophenols (and their sodium salts) (mixed exposure)	0-54-0	OSHA Carcinogen					
T	Polycyclic Aromatic Hydrocarbon(s) {PAH; see 15 specific chemicals}	0-50-0	OSHA Carcinogen					
T	Polygeenan	53973-98-1	OSHA Carcinogen					
T	Ponceau 3R	3564-09-8	OSHA Carcinogen					
T	Ponceau MX	3761-53-3	OSHA Carcinogen					
T,R,C	Potassium						EH&S	
T	Potassium Acide Fluoride						EH&S	
T	Potassium Arsenate	7784-41-0	OSHA Carcinogen					
T	Potassium arsenate						EH&S	
T	Potassium Arsenite	13464-35-2	OSHA Carcinogen					
T	Potassium arsenite						EH&S	
T,R,C	Potassium bifluoride						EH&S	
T	Potassium Bromate	7758-01-2	OSHA Carcinogen					
T	Potassium Chromate, as Cr6+ [water soluble]	7789-00-6	OSHA Carcinogen					
T,R,C	Potassium cyanide K(CN)	151-50-8			P098			
T	Potassium Dichromate , as Cr6+ [water soluble]	7778-50-9	OSHA Carcinogen					
T,R,C	Potassium hydride						EH&S	
T	Potassium Molybdate, as Mo [water soluble]	13446-49-6	OSHA Carcinogen					
T,R,C	Potassium silver cyanide	506-61-6			P099			
T	Primidone	125-33-7	OSHA Carcinogen					
T	Procarbazine	671-16-9	OSHA Carcinogen					
T	Procarbazine Hydrochloride	366-70-1	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Procymidone	32809-16-8	OSHA Carcinogen					
T	Progesterone (Indirect)	57-83-0	OSHA Carcinogen					
T	Progestins	0-21-0	OSHA Carcinogen					
T	Promecarb	2631-37-0			P201			
T	Pronamide	23950-58-5	OSHA Carcinogen	U192				
T	Propachlor	1918-16-7	OSHA Carcinogen					
T	Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime.	1646-88-4			P203			
T	Propanal, 2-methyl-2-(methylthio)-,O-[(methylamino)carbonyl]oxime	116-06-3			P070			
T	Propane, 1,2-dibromo-3-chloro-	96-12-8		U066				
T	Propane, 1,2-dichloro-	78-87-5		U083				
T	Propane, 2,2'-oxybis[2-chloro-	108-60-1		U027				
T	Propane, 2-nitro-	79-46-9		U171				
T	Propanedinitrile	109-77-3		U149				
T	Propanenitrile	107-12-0			P101			
T	Propanenitrile, 2-hydroxy-2-methyl-	75-86-5			P069			
T	Propanenitrile, 3-chloro-	542-76-7			P027			
T	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	93-72-1		F027				
T	Propargite	2312-35-8	OSHA Carcinogen					
T	Propargyl alcohol	107-19-7			P102			
T	Propargyl bromide						EH&S	
T	Propham.	122-42-9		U373				
T	Propoxur.	114-26-1		U411				
T	Propylene dichloride	78-87-5		U083				
T	Propylene Oxide	75-56-9	OSHA Carcinogen					
T	Propyleneimine	75-55-8	OSHA Carcinogen					
T	Propylthiouracil	51-52-5	OSHA Carcinogen					

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	p-Rosaniline	569-61-9	OSHA Carcinogen					
T	Prosulfocarb.	52888-80-9		U387				
T	Prothoate						EH&S	
T	p-Toluidine	106-49-0		U353				
T	Pyranol						EH&S	
T, F	Pyridine	110-86-1		U196		D038		
T,F	Pyridine, 2-methyl-	109-06-8		U191				
T,F	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts	54-11-5			P075			
T	Pyrosulfuryl chloride						EH&S	
T	Pyrrolidine, 1-nitroso-	930-55-2		U180				
T	Pyrrolo[2,3-b]indol-5-ol,1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-.	57-47-6			P204			
T	Quartz {Silica (respirable) - Crystalline}	14808-60-7	OSHA Carcinogen					
T	Quinoline (and its strong acid salts)	0-70-0	OSHA Carcinogen					
T	Quinone						EH&S	
T	RACUMIN 57						EH&S	
T	Radium (as 224Ra, and its decay products)	0-87-0	OSHA Carcinogen					
T	Radium (as 226Ra, and its decay products)	0-88-0	OSHA Carcinogen					
T	Radium (as 228Ra, and its decay products)	0-89-0	OSHA Carcinogen					
T	Radon (as 222Rn, and its decay products)	0-90-0	OSHA Carcinogen					
T	RATOX						EH&S	
T	Refractory Ceramic Fiber	409-21-2	OSHA Carcinogen					
T	Reserpine	50-55-5	OSHA Carcinogen	U200				
T	Residual (Heavy) Fuel Oil	68476-33-5	OSHA Carcinogen					
T	Resorcinol	108-46-3		U201				
T	Rockwool	0-23-0	OSHA Carcinogen					
T	Rubidium Chromate, as Cr6+ [water soluble]	13446-72-5	OSHA Carcinogen					
T	Rubidium Dichromate, as Cr6+ [water soluble]	13446-73-6	OSHA Carcinogen					

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	S,S-1,4-dioxane-2,3-diyl bis(O,O-diethyl phosphorodithioate)						EH&S	
T	S-[(5-Methoxy-2-oxo-1,3,4-thia-diazo13(2H)-yl)methyl] - O,O-dimethyl phosphorodithioate						EH&S	
T	S-[(5-Methoxy-4-oxo-4H-pyran-2-yl)-methyl] O,O-dimethyl phosphorothioate						EH&S	
T	S[[[4-Chlorophenyl]thio]methyl] 0,0-diethyl phosphorodithioate						EH&S	
T	S-[2-(ethyl-sulfonyl)ethyl] O,O-dimethyl phosphorothioate						EH&S	
T	Saccharin, & salts	81-07-2		U202				
T	Saccharin, Sodium Salt	128-44-9	OSHA Carcinogen					
T	Safrole	94-59-7	OSHA Carcinogen	U203				
T	Salicylated mercury						EH&S	
T	Salicylazosulfapyridine	599-79-1	OSHA Carcinogen					
T	Samarium Chromate Dihydrate, as Cr6+	58569-17-8	OSHA Carcinogen					
T	Samarium Chromate Heptahydrate, as Cr6+	58477-24-0	OSHA Carcinogen					
T	Samarium Chromate, as Cr6+	16565-96-1	OSHA Carcinogen					
T	Schradan						EH&S	
T,C	Selenious acid	7783-00-8		U204				
T,C	Selenious acid and salts						EH&S	
T,C	Selenious acid, dithallium(1+) salt	12039-52-0			P114			
T	Selenium and/or selenium compounds	7782-49-2				D010		CA BioAccu Inorganic
T	Selenium dioxide	7783-00-8		U204				
T	Selenium fluoride						EH&S	
T,R,C	Selenium Sulfide	7446-34-6	OSHA Carcinogen					
T,R,C	Selenium sulfide	7488-56-4		U205				
T	Selenourea	630-10-4			P103			

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T,C	Selenous acid						EH&S	
T	Semustine	13909-09-6	OSHA Carcinogen					
T	Shale Oils	68308-34-9	OSHA Carcinogen					
T	Silica (respirable) - Crystalline {Cristobalite}	14464-46-1	OSHA Carcinogen					
T	Silica (respirable) - Crystalline {Quartz}	14808-60-7	OSHA Carcinogen					
T	Silica (respirable) - Crystalline {Tridymite}	15468-32-3	OSHA Carcinogen					
T	Silica (respirable) - Crystalline {Tripoli}	1317-95-9	OSHA Carcinogen					
T	Silicochloroform						EH&S	
T	Silicon Carbide (fibrous forms, including whiskers)	409-21-2	OSHA Carcinogen					
T	Silicon Chloride						EH&S	
T	Silicon Dioxide - [see specific crystalline silica form]	7631-86-9	OSHA Carcinogen					
T,R,C	Silicon tetrachloride						EH&S	
T	Silver	7440-22-4				D011		
T	Silver acetylide						EH&S	
T	Silver and/or silver compounds						EH&S	CA BioAccu Inorganic
T	Silver Chromate, as Cr6+	7784-01-2	OSHA Carcinogen					
T,R	Silver cyanide Ag(CN)	506-64-9			P104			
T	Silver Dichromate, as Cr6+	7784-02-3	OSHA Carcinogen					
T	Silvex (2,4,5-TP)	93-72-1		F027				
T	SINOX						EH&S	
T	Slagwool	0-24-0	OSHA Carcinogen					
T	S-Methyl-N-((methyl-carbamoyl)oxy) thioacetimidate						EH&S	
T	Sodamide						EH&S	
T	Sodium						EH&S	
T	Sodium Acid Fluoride						EH&S	
T	Sodium aluminum hydride						EH&S	
T	Sodium amide						EH&S	

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Sodium Arsenate	7631-89-2	OSHA Carcinogen					
T	Sodium Arsenate	15120-17-9	OSHA Carcinogen					
T	Sodium Arsenite	7784-46-5	OSHA Carcinogen					
T	Sodium azide	26628-22-8			P105			
T	Sodium bifluoride						EH&S	
T	Sodium cacodylate						EH&S	
T	Sodium Chromate, as Cr6+ [water soluble]	7775-11-3	OSHA Carcinogen					
T,R	Sodium cyanide Na(CN)	143-33-9			P106			
T	Sodium Dichromate, as Cr6+ [water soluble]	10588-01-9	OSHA Carcinogen					
T	Sodium Dichromate, as Cr6+ [water soluble]	12018-32-5	OSHA Carcinogen					
T	Sodium dimethylarsenate						EH&S	
T	Sodium Equilin Sulfate	16680-47-0	OSHA Carcinogen					
T	Sodium Estrone Sulfate	438-67-5	OSHA Carcinogen					
T	Sodium hydride						EH&S	
T,R	Sodium hypochlorite						EH&S	
T	Sodium methoxide						EH&S	
T	Sodium methylate						EH&S	
T	Sodium Molybdate Dihydrate, as Mo [water soluble]	10102-40-6	OSHA Carcinogen					
T	Sodium Molybdate, as Mo [water soluble]	7631-95-0	OSHA Carcinogen					
T	Sodium o-Phenylphenate	132-27-4	OSHA Carcinogen					
T,R	Sodium peroxide						EH&S	
T	Sodium potassium alloy						EH&S	
T	Sodium selenate						EH&S	
T	Solar Radiation, as UV radiation	0-30-0	OSHA Carcinogen					
T	Soot extracts (containing PAHs)	0-39-0	OSHA Carcinogen					
T	Soots {PAH}	0-25-0	OSHA Carcinogen					
T	S-para-Chlorophenyl-2,4,5-trichlorophenyl sulfide						EH&S	
T	Spirolactone	52-01-7	OSHA Carcinogen					

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Stannic Chromate, as Cr6+ [water soluble]	38455-77-5	OSHA Carcinogen					
T	Stanozolol	10418-03-8	OSHA Carcinogen					
T	Sterigmatocystin	10048-13-2	OSHA Carcinogen					
T	Streptozotocin	18883-66-4	OSHA Carcinogen					
T	Streptozotocin	18883-66-4		U206				
T	Strontium arsenate						EH&S	
T	Strontium Chromate, as Cr6+	7789-06-2	OSHA Carcinogen					
T	Strontium Chromate, as Cr6+	54322-60-0	OSHA Carcinogen					
T	Strychnidin-10-one, & salts	57-24-9			P108			
T	Strychnidin-10-one, 2,3-dimethoxy-	357-57-3			P018			
T	Strychnine, & salts	57-24-9			P108			
T	Styrene Epoxide	96-09-3	OSHA Carcinogen					
T	Styrene Oxide	96-09-3	OSHA Carcinogen					
T	Styrene, Monomer	100-42-5	OSHA Carcinogen					
T	Styrene-7,8-oxide	96-09-3	OSHA Carcinogen					
T	Sulfallate	95-06-7	OSHA Carcinogen					
T,C	Sulfonyl Chloride						EH&S	
T,C	Sulfonyl Fluoride						EH&S	
T	Sulfotepp						EH&S	
T	Sulfur chloride						EH&S	
T	Sulfur Monochloride						EH&S	
T	Sulfur mustard						EH&S	
T,C	Sulfur oxychloride						EH&S	
T,C	Sulfur pentafluoride						EH&S	
T	Sulfur phosphide	1314-80-3		U189				
T,C	Sulfuric Acid Mist (occ. exposure to strong inorganic acid mists)	0-35-0	OSHA Carcinogen					
T,C	Sulfuric acid, dimethyl ester	77-78-1		U103				

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T,C	Sulfuric acid, dithallium(1+) salt	7446-18-6			P115			
T	Sulfuryl chloride						EH&S	
T	Sulfuryl fluoride						EH&S	
T	Sunlamps and sunbeds, use of [as UV radiation]	0-34-0	OSHA Carcinogen					
T	SUPRACIDE						EH&S	
T	SURECIDE						EH&S	
T	Synthetic Vitreous Fibers (see glasswool, rockwool, slagwool)	0-44-0	OSHA Carcinogen					
T	SYSTOX						EH&S	
T	Talc (containing asbestos fibers)	0-75-0	OSHA Carcinogen					
T	Tamoxifen	10540-29-1	OSHA Carcinogen					
T	Tars	0-78-0	OSHA Carcinogen					
T	TCDD	1746-01-6	OSHA Carcinogen					
T	TDI	584-84-9	OSHA Carcinogen					
T	TEDP						EH&S	
T	Tellurium hexafluoride						EH&S	
T	TELODRIN						EH&S	
T	TEMIK						EH&S	
T	Teniposide	29767-20-2	OSHA Carcinogen					
T	TEPA						EH&S	
T	Terrazole	2593-15-9	OSHA Carcinogen					
T	Testosterone (and its esters)	58-22-0	OSHA Carcinogen					
T	Tetrachloroethylene	127-18-4	OSHA Carcinogen	U210				
T	Tetrachloromethane	56-23-5	OSHA Carcinogen					
T	Tetracobalt Dodecacarbonyl, as Co	17786-31-1	OSHA Carcinogen					
T	Tetraethyl lead	78-00-2			P110			
T	Tetraethyl pyrophosphate	107-49-3			P111			
T	Tetraethyldithiopyrophosphate	3689-24-5			P109			

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T	Tetrafluoroethylene	116-14-3	OSHA Carcinogen					
T	Tetrahydrofuran	109-99-9		U213				
T	Tetramethyl succinonitrile						EH&S	
T	Tetramethylphosphorodiamidic fluoride						EH&S	
T	Tetranitromethane	509-14-8	OSHA Carcinogen		P112			
T	Tetraphosphoric acid, hexaethyl ester	757-58-4			P062			
T	Tetraphosphorus Trisulfide						EH&S	
T	Tetrasul						EH&S	
T	Thallic oxide	1314-32-5			P113			
T	Thallium and/or thallium compounds						EH&S	CA BioAccu Inorganic
T	Thallium chloride TlCl	7791-12-0		U216				
T	Thallium Chromate, as Cr6+	13473-75-1	OSHA Carcinogen					
T	Thallium Chromate, as Cr6+	15190-21-3	OSHA Carcinogen					
T	Thallium Chromate, as Cr6+	22534-09-4	OSHA Carcinogen					
T	Thallium Dichromate, as Cr6+	13453-35-5	OSHA Carcinogen					
T	Thallium Sulfate						EH&S	
T	Thallium(I) acetate	563-68-8		U214				
T	Thallium(I) carbonate	6533-73-9		U215				
T	Thallium(I) chloride	7791-12-0		U216				
T	Thallium(I) nitrate	10102-45-1		U217				
T	Thallium(I) selenite	12039-52-0			P114			
T	Thallium(I) sulfate	7446-18-6			P115			
T	Thallosulfate						EH&S	
T	Thioacetamide	62-55-5	OSHA Carcinogen	U218				
T	Thiocarbonylchloride						EH&S	
T	Thiodicarb	59669-26-0	OSHA Carcinogen	U410				
T	Thiodiphosphoric acid, tetraethylester	3689-24-5			P109			

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Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Thiofanox	39196-18-4			P045			
T	Thioimidodicarbonic diamide	541-53-7			P049			
T	Thiomethanol	74-93-1		U153				
T	Thionazin						EH&S	
T,R,C	Thionyl chloride						EH&S	
T	Thioperoxydicarbonic diamide[(tetramethyl-	137-26-8		U244				
T	Thiophanate-methyl.	23564-05-8		U409				
T	Thiophenol	108-98-5			P014			
T	Thiophosgene						EH&S	
T	Thiophosphoryl chloride						EH&S	
T	Thiosemicarbazide	79-19-6			P116			
T	Thiotepa	52-24-4	OSHA Carcinogen					
T	Thiouracil	141-90-2	OSHA Carcinogen					
T	Thiourea	62-56-6	OSHA Carcinogen	U219				
T	Thiourea, (2-chlorophenyl)-	5344-82-1			P026			
T	Thiourea, 1-naphthalenyl-	86-88-4			P072			
T	Thiourea, phenyl-	103-85-5			P093			
T	Thiram	137-26-8		U244				
T	Thorium (as ²³² Th, and its decay products)	0-91-0	OSHA Carcinogen					
T	Thorium Dioxide	1314-20-1	OSHA Carcinogen					
T	Tin (IV) Chromate, as Cr6+ [water soluble]	38455-77-5	OSHA Carcinogen					
T	Tirpate.	26419-73-8			P185			
T	Titanic Chloride						EH&S	
T	Titanium tetrachloride						EH&S	
T	Tobacco Products, Smokeless	0-26-0	OSHA Carcinogen					
T	Tobacco Smoke	0-27-0	OSHA Carcinogen					
T,F	Toluene	108-88-3		U220				
T	Toluene Diisocyanate	26471-62-5	OSHA Carcinogen	U223				

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T	Toluene-2,4-diamine	95-80-7	OSHA Carcinogen					
T	Toluene-2,4-diisocyanate	584-84-9	OSHA Carcinogen					
T	Toluene-2,6-diisocyanate	91-08-7	OSHA Carcinogen					
T	Toluenediamine	25376-45-8		U221				
T	Toxaphene	8001-35-2	OSHA Carcinogen		P123			CA BioAccu Organic
T	TRANID						EH&S	
T	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole	25962-77-0	OSHA Carcinogen					
T	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole	55738-54-0	OSHA Carcinogen					
T	Tremolite [asbestiform]	14567-73-8	OSHA Carcinogen					
T	Treosulfan	299-75-2	OSHA Carcinogen					
T	Treosulphan	299-75-2	OSHA Carcinogen					
T	Triallate.	2303-17-5		U389				
T	Triamiphos						EH&S	
T	Triaziquone	68-76-8	OSHA Carcinogen					
T	Trichlormethine	817-09-4	OSHA Carcinogen					
T	Trichloroborane						EH&S	
T,F	Trichloroethylene	79-01-6	OSHA Carcinogen	U228				CA BioAccu Organic
T,F	Trichloromethane	67-66-3	OSHA Carcinogen					
T	Trichloromethanethiol	75-70-7			P118			
T	Trichloromethylsulfenylchloride						EH&S	
T	Trichloromonofluoromethane	75-69-4		U121				
T,F	Trichloronitromethane						EH&S	
T,R	Trichlorosilane						EH&S	
T	Tridymite {Silica (respirable) - Crystalline}	15468-32-3	OSHA Carcinogen					
T,R,C	Triethylamine.	121-44-8		U404				
T	Triethylenephospho-ramide						EH&S	

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Trifluoromethylbenzene						EH&S	
T	Trimethyl Phosphate	512-56-1	OSHA Carcinogen					
T	Trimustine Hydrochloride	817-09-4	OSHA Carcinogen					
T	Triphenyltin Hydroxide	76-87-9	OSHA Carcinogen					
T	Tripoli {Silica (respirable) - Crystalline}	1317-95-9	OSHA Carcinogen					
T	tris(1-Aziridiny) phosphine oxide						EH&S	
T	tris(1-Aziridiny)phosphine Sulfide	52-24-4	OSHA Carcinogen					
T	tris(2,3-Dibromopropyl) Phosphate	126-72-7	OSHA Carcinogen	U235				
T	tris(2-Chloroethyl) Phosphate	115-96-8	OSHA Carcinogen					
T	tris(Aziridiny)-p-benzoquinone	68-76-8	OSHA Carcinogen					
T	Trisodium Arsenate Heptahydrate	64070-83-3	OSHA Carcinogen					
T	TRITHION						EH&S	
T	Trp-P-1(3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole)	62450-06-0	OSHA Carcinogen					
T	Trp-P-1(Tryptophan-P-1)	62450-06-0	OSHA Carcinogen					
T	Trp-P-2(3-Amino-1-methyl-5H-pyrido[4,3-b]indole)	62450-07-1	OSHA Carcinogen					
T	Trp-P-2(Tryptophan-P-2)	62450-07-1	OSHA Carcinogen					
T	Trypan blue	72-57-1		U236				
T	Trypan Blue (commercial grade)	72-57-1	OSHA Carcinogen					
T	UDMH	57-14-7	OSHA Carcinogen					
T	ULTRACIDE						EH&S	
T	Ultraviolet A Radiation {UV A @ 315-400 nm}	0-31-0	OSHA Carcinogen					
T	Ultraviolet B Radiation {UV B @ 280-315 nm}	0-32-0	OSHA Carcinogen					
T	Ultraviolet C Radiation {UV C @ 100-280 nm}	0-33-0	OSHA Carcinogen					
T	Unleaded Gasoline (wholly vaporized)	0-73-0	OSHA Carcinogen					
T	Uracil Mustard	66-75-1	OSHA Carcinogen					
T	Uracil mustard	66-75-1		U237				
T	Uranium, natural [soluble & insoluble compounds]	7440-61-1	OSHA Carcinogen					
T	Urea, N-ethyl-N-nitroso-	759-73-9		U176				

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Urea, N-methyl-N-nitroso-	684-93-5		U177				
T	Urethane	51-79-6	OSHA Carcinogen					
T	Vanadic acid, ammonium salt	7803-55-6			P119			
T	Vanadium and/or vanadium compounds						EH&S	CA BioAccu Inorganic
T	Vanadium pentoxide	1314-62-1			P120			
T	VAPONA						EH&S	
T	Vinclozolin	50471-44-8	OSHA Carcinogen					
T	Vinyl Acetate	108-05-4	OSHA Carcinogen					
T	Vinyl Benzene	100-42-5	OSHA Carcinogen					
T	Vinyl Bromide	593-60-2	OSHA Carcinogen					
T	Vinyl chloride	75-01-4	OSHA Carcinogen	U043				
T,R	Vinyl Cyanide [1910.1045]	107-13-1	OSHA Carcinogen					
T	Vinyl Cyclohexene Dioxide	106-87-6	OSHA Carcinogen					
T	Vinyl Fluoride	75-02-5	OSHA Carcinogen					
T	Vinyl Trichloride	79-00-5	OSHA Carcinogen					
T	Vinylamine, N-methyl-N-nitroso-	4549-40-0			P084			
T	Vinyltrichlorosilane						EH&S	
T	Warfarin, & salts, when present at concentrations greater than 0.3%	81-81-2		U248	P001			
T	Welding Fumes	0-49-0	OSHA Carcinogen					
T	WEPSYN 155						EH&S	
T	Wood Dust	0-43-0	OSHA Carcinogen					
T	Wood Dust [beech & oak]	0-42-0	OSHA Carcinogen					
T	Wood Dust [birch, mahogany, walnut & teak]	0-57-0	OSHA Carcinogen					
T	WP 155						EH&S	
T	X-Radiation	0-92-0	OSHA Carcinogen					
T,F	Xylene	1330-20-7		U239				

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester (3beta,16beta,17alpha,18beta,20alpha)-	50-55-5		U200				
T	Zalcitabine	7481-89-2	OSHA Carcinogen					
T	ZECTRAM						EH&S	
T	Zidovudine	30516-87-1	OSHA Carcinogen					
T	Zileuton	111406-87-2	OSHA Carcinogen					
T	Zinc and/or zinc compounds						EH&S	CA BioAccu Inorganic
T	Zinc arsenate						EH&S	
T	Zinc arsenite						EH&S	
T	Zinc Beryllium Silicate, as Be	39413-47-3	OSHA Carcinogen					
T	Zinc Chromate Hydroxide, as Cr6+	12206-12-1	OSHA Carcinogen					
T	Zinc Chromate Hydroxide, as Cr6+	15930-94-6	OSHA Carcinogen					
T	Zinc Chromate Hydroxide, as Cr6+	66516-58-3	OSHA Carcinogen					
T	Zinc Chromate, as Cr6+	1308-13-0	OSHA Carcinogen					
T	Zinc Chromate, as Cr6+	1328-67-2	OSHA Carcinogen					
T	Zinc Chromate, as Cr6+	13530-65-9	OSHA Carcinogen					
T	Zinc Chromate, as Cr6+	14675-41-3	OSHA Carcinogen					
T	Zinc Chromate, as Cr6+	37300-23-5	OSHA Carcinogen					
T	Zinc Chromate, as Cr6+	57486-12-1	OSHA Carcinogen					
T,R	Zinc cyanide	557-21-1			P121			
T	Zinc ethyl						EH&S	
T	Zinc phosphide						EH&S	
T	Zinc phosphide	1314-84-7			P122			
T	Zinc phosphide when present at concentrations of 10% or less	1314-84-7		U249				

Appendix B - Table of EH&S Listed Hazardous Wastes

Hazard Class T=Toxic F=Flammable R=Reactive C=Corrosive	CHEMICAL NAME	CAS Registry Number	OSHA Carcinogen	USEPA LIST U	USEPA LIST P	USEPA LIST D	EH&S Detn	BioAccumulator Organic/Inorganic
T	Zinc Potassium Chromate (Hydroxide), as Cr6+	11103-86-9	OSHA Carcinogen					
T	Zinc Potassium Chromate (Hydroxide), as Cr6+	12527-08-1	OSHA Carcinogen					
T	Zinc Potassium Chromate (Hydroxide), as Cr6+	37809-34-0	OSHA Carcinogen					
T	Zinc Yellow, as Cr6+	1308-13-0	OSHA Carcinogen					
T	Zinc Yellow, as Cr6+	1328-67-2	OSHA Carcinogen					
T	Zinc Yellow, as Cr6+	13530-65-9	OSHA Carcinogen					
T	Zinc Yellow, as Cr6+	14675-41-3	OSHA Carcinogen					
T	Zinc Yellow, as Cr6+	37300-23-5	OSHA Carcinogen					
T	Zinc Yellow, as Cr6+	57486-12-1	OSHA Carcinogen					
T	Zinc, bis(dimethylcarbamoedithioato- S,S')-,	137-30-4			P205			
T	ZINOPHOS						EH&S	
T	Ziram.	137-30-4			P205			
T	Zirconium chloride						EH&S	
T	Zirconium Tetrachloride						EH&S	

Notes:

OSHA Carcinogen per 29 CFR 1910.xxx

USEPA List = Listed hazardous waste per 40 CFR 261 et seq

EH&S = Determined to be hazardous waste by EH&S

BioAccumulator = California toxin to aquatic life

Hazardous Waste Management Guidebook

APPENDIX C

TABLE OF EH&S ACUTELY HAZARDOUS WASTES

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
1-(o-Chlorophenyl)thiourea
1,1,1-Trichloro-2, -bis(p-methoxyphenyl)ethane
1,1a,2,2,3,3a,4,5,5,5a,5b,6-Dodecachlorooctahydro-1,3,4-metheno-1H-cyclobuta (cd) pentalene, Dechlorane
1,1a,3,3a,4,5,5,5a,5b,6-Decachloro--octahydro-1,2,4-metheno-2H-cyclobuta (cd) pentalen-2-one, Chlorecone
1,1-Dimethylhydrazine
1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo-exodimethanonaphthalene
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4,4a,5,6,7,8,8a-octahydro-1,4-endo-endo-5,8-dimethanonaph-thalene
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo
1,2,3-Propanetriol, trinitrate
1,2,4,5,6,7,8,8-Octachloro-4,7-methano-3a,4,7,7a-tetra- hydro- indane
1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-,
1,2-Dibromo-3-chloropropane
DBCP
Fumazone
nemagon
1,2-Propylenimine
1,3,4,5,6,7,8,8-Octachloro-1,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran
1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O- [(methylamino)-carbonyl]oxime.
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetra-hydro-4,7-methanoindene
1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a,-hexahydro- (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-
1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro- (1alpha,4alpha,4abeta,5beta,8beta,8abeta)-
1,4-Benzoquinone
1-Acetyl-2-thiourea
1-NA
2-(Diethoxyphosphinylimino)-1,3-dithio-lane
2,3,7,8-Tetrachlorodibenzo-para-dioxin
2,3-Dihydro-2,2-dimethyl-7-benzofuranylmethylcarbamate
2,4,5,-T
2,4,5-Trichlorophenoxyacetic acid
2,4-D
2,4-Dichlorophenoxyacetic acid
2,4-Dinitro-6-sec-butylphenol
2,4-Dinitrophenol
2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha)-, & metabolites
2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta, 7aalpha)-
254. *Diborane
2-AAF
2-Acetylaminofluorene
2-Aminopyridine
2-Butanone, 3,3-dimethyl-1-(methylthio)-,O-[methylamino]carbonyl] oxime
2-Carbomethoxy-1-methylvinyl dimethylphosphate
2-Chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate
2-Chloro-2-diethyl--carbamoyl-1-methylvinyl dimethyl phosphate

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
2-Chloro-4,5-dimethylphenylmethyl-carbamate
2-Chloro-4-dimethylamino-6-methyl-pyrimidine
2-Cyclohexyl-4,6-dinitrophenol
2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%
2-Methyl-2(methylthio)propionaldehyde-O-(methylcarbamoyl) oxime
2-Methylaziridine
2-Methylactonitrile
2-Propanone, 1-bromo-
2-Propen-1-ol
2-Propenal
2-Propyn-1-ol
2-tert-Butyl-5-methyl-4,6-dinitro-phenyl acetate
3(2H)-Isoxazolone, 5-(aminomethyl)-
3,3-Dichlorobenzidine and salts, DCB
3-[1-(2-Furanyl)-3-oxobutyl]1-4-hydroxy-2H-1-benzopyran-2-one
3-Bromo-1-propyne
3-Chloropropionitrile
3-Isopropylphenyl N-methylcarbamate.
4-(Dimethylamino)-3,5-dimethylphenyl methylcarbamate
4,4-Methylene bis(2-chloroaniline)
4,6-Dinitro-o-cresol, & salts
4,7-Methano-1H-indene, 1,4,5,6,7,8,8- heptachloro-3a,4,7,7a-tetrahydro-
460.Mercuric salicylate
4-ADP
4-Aminodiphenyl
4-Aminopyridine
4-Hydroxy-3-(1,2,3,4-tetrahydro-1-naphthalenyl)-2H-1-benzopyran-2-one
4-Pyridinamine
5-(Aminomethyl)-3-isoxazolol
6,7,8,9,10,10-Hexachlor-1,5,5a,6,9,9a-hexa-hydro-6,9-methano-2,4,3-benzo-dioxathiepin-3-oxide
6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-,3-oxide
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
Acetaldehyde, chloro-
Acetamide, 2-fluoro-
Acetamide, N-(aminothioxomethyl)-
Acetic acid, fluoro-, sodium salt
Acetyl chloride
Acrolein
Acrylonitrile
ACTIDIONE
Adiponitrile
AFL 1082
AGALLOL
Aldicarb
Aldicarb sulfone.
Aldrin

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Alkyl aluminum chloride
Alkyl aluminum compounds
Allyl alcohol
Allyl trichlorosilane
alpha,alpha-Dimethylphenethylamine
alpha-Chloroacetophenone, Phenyl chloromethyl ketone
alpha-Naphthylamine
alpha-Naphthylthiourea
Aluminum chloride (anhydrous)
Aluminum diethyl monochloride
Aluminum phosphide
Ammonium arsenate
Ammonium bifluoride
Ammonium picrate
Ammonium vanadate
Amyl trichlorosilane (and isomers)
ANIMERT V-101
Antimony pentachloride
Antimony pentafluoride
Aqualin
ARETAN
Argentate(1-), bis(cyano-C)-, potassium
Aroclor
Arsenic
Arsenic acid and salts
Arsenic bromide
Arsenic chloride
Arsenic compounds
Arsenic disulfide
Arsenic iodide
Arsenic oxide
Arsenic pentaselenide
Arsenic pentoxide
Arsenic sulfide
Arsenic tribromide
Arsenic trichloride
Arsenic trioxide
Arsenious acid and salts
Arsenious oxide
Arsine, diethyl-
Arsines
Arsonous dichloride, phenyl-
Askarel
Aziridine
Aziridine, 2-methyl-
AZODRIN, 3-Hydroxy-N-cis-crotonamide
BANOL

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Barium cyanide
BAYER 25141
BAYER 25634
BCME
Benzenamine, 4-chloro-
Benzenamine, 4-nitro-
Benzene hexachloride, BHC; 1,2,3,4,5,6-Hexachloro--cyclohexane
Benzene, (chloromethyl)-
Benzenethanamine, alpha,alpha-dimethyl, Benzenethiol
Benzenephosphorous dichloride
Benzidine and salts
Benzoic acid, 2-hydroxy-, compd. With (3a <i>S</i> -cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3- <i>b</i>]indol-5-yl methylcarbamate ester (1:1).
Benzotrifluoride
Benzoyl chloride
Benzyl chloride
Benzyl chlorocarbonate
Benzyl chloroformate
Beryllium
Beryllium chloride
Beryllium compounds
Beryllium copper
Beryllium fluoride
Beryllium hydride
Beryllium hydroxide
Beryllium oxide
Beryllium powder
beta-Chlorovinylchloroarsine
beta-Hydroxypropionitrile
beta-Naphthylamine, 2-NA
beta-Propiolactone, BPL
BIDRIN, Dicrotophos, 3-(Dimethylamino)-1-methyl-3-oxo-1-propenyldimethyl phosphate
Biphenyl
bis (Chloromethyl) ether
bis (Methylmercuric) sulfate, CEREWET, Ceresan liquid
bis(2,3-Epoxypropyl) ether
BLACAFUM
BOMYL
Boranes
Bordeaux arsenites
Boron trichloride
Boron trifluoride
Bromine
Bromine pentafluoride
Bromine trifluoride
Bromoacetone
Bromomethane

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Brucine
Brucine, Dimethoxystrychnine
Cacodylic acid
Cadmium (powder)
Cadmium compounds
Cadmium cyanide
Calcium
Calcium arsenate
Calcium arsenite
Calcium carbide
Calcium cyanide
Calcium hydride
Calcium hypochlorite
Calcium oxychloride (dry)
Calcium phosphide
Carbamic acid, [(dibutylamino)-thio]methyl-, 2,3-dihydro-2,2-dimethyl- 7-benzofuranyl ester.
Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]- 5-methyl-1H- pyrazol-3-yl ester.
Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H- pyrazol-5-yl ester.
Carbamic acid, methyl-, 3-methylphenyl ester.
Carbanolate
Carbofuran
Carbon disulfide
Carbonic dichloride
Carbonyl chloride
Carbophenothion
Carbosulfan
CASTRIX
CHEMFLOM
Chlordane
Chlorextol
Chlorfenvinphos
Chlorine
Chlorine dioxide
Chlorine pentafluoride
Chlorine trifluoride
Chloroacetaldehyde
Chloroacetyl chloride
Chlorochromic anhydride
Chloropicrin
Chlorosulfonic acid
Chlorpicrin
Chromyl chloride
CMME
Compound 1080
Compound 1836
Compound 4072
Copper acetoarsenite

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Copper arsenate
Copper arsenite
Copper cyanide
Coroxon
Coumafuryl
Coumatetralyl
Crimidine
Crotonaldehyde, 2-Butenal
Cupric arsenate
Cupric arsenite
Cupric cyanide
Cyanide salts
Cyanides (soluble cyanide salts), not otherwise specified
Cyanogen
Cyanogen chloride
Cyanophenphos
Cyclohexenyltrichlorosilane
Cycloheximide
Cyclohexyltrichlorosilane
CYOLAN
DASANIT
DDVP
DEAC
Decaborane
DELNAV
Demeton
Demeton-S-methyl sulfone
Diboron Hexahydride
Dichlorodimehtylsilane
Dichloroethylarsine
Dichloromethylether
Dichlorophenylarsine
Dichlorvos
Dieldrin
Diethyl chlorovinyl phosphate
Diethylaluminum chloride
Diethylarsine
Diethyldichlorosilane
Diethyl-p-nitrophenyl phosphate
Diethylzinc
Difluorophosphoric acid
Diglycidyl ether
Diisopropylfluorophosphate (DFP)
DIMECRON
Dimefox
Dimethoate
Dimethoxystrychnine

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Dimethyl 3-hydroxyglutaconate dimethylphosphate
Dimethyl dichlorovinylphosphate
Dimethyl nitrosoamine
Dimethyl sulfate
Dimethyl sulfide
Dimethylaminoazobenzene
Dimethylarsinic acid
Dimethyldichlorosilane
Dimetilan.
Dinitrobenzene (ortho, meta, para)
Dinoseb
DINOSEB
Dioxathion
Dioxin
Diphenyl
Diphenylamine chloroarsine
Diphenyldichlorosilane
Diphosphoramidate, octamethyl-
Diphosphoric acid, tetraethyl ester
Disulfoton
Disulfuryl chloride
DI-SYSTON
Dithiobiuret
DITHIONE
DNPC
Dodecyltrichlorosilane
DOWCO-139
DOWICIDE I
DYFONATE
E Dinitrophenol(2,3-;2,4-;2,6-isomers)
EL
Elenious acid, dithallium(1+) salt
Endosulfan
Endothall
Endothion
Endrin
Endrin, & metabolites
Epinephrine
EPN
Ethanedinitrile
Ethanethiol
Ethanimidothioc acid, 2-(dimethylamino)-N-[[[(methylamino) carbonyl]oxy]-2-oxo-, methyl ester.
Ethanimidothioc acid, N-[[[(methylamino)carbonyl]oxy]-, methyl ester
Ethion
Ethyl Chlorocarbonate
Ethyl chloroformate
Ethyl cyanide

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Ethyl mercaptan
Ethylchloroarsine
Ethylchlorosilane
Ethylene cyanohydrin
Ethyleneimine
Ethylphenyldichlorosilane
Ethyltrichlorosilane
exo-3-Chloro-endo-6-cyano-2-norbornanone-O- (methylcarbamoyl) oxime
exo-5,8-dimethanonaphthalene
EXOTHION
FAC
Famphur
Fensulfothion
Ferric arsenate
Ferrous arsenate
Fluoboric acid
Fluorine
Fluoroacetamide
Fluoroacetanilide
Fluoroacetic acid and salts
Fluoroboric Acid
Fluorsulfonic Acid
Fonofos
Formetanate hydrochloride.
Formparanate.
FOSTION
Fulminic acid, mercury(2+) salt
FUMARIN
Fuming Sulfuric Acid
FURADAN
GB
Guthion
Hanane
Heptachlor
Hexadecyltrichlorosilane
Hexaethyl tetraphosphate
Hexyltrichlorosilane
Hydrazine, Diamine
Hydrazine, methyl-
Hydrazinecarbothioamide
Hydriodic acid
Hydrobromic acid
Hydrochloric acid
Hydrocyanic acid
Hydrofluoric acid
Hydrogen Bromide
Hydrogen Chloride

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Hydrogen cyanide
Hydrogen fluoride
Hydrogen Iodide
Hydrogen Phosphide
Hydrogen selenide
Hydrogen sulfide
Hypochlorite compounds
Inerteen
Iron Arsenate
Isobenzan
Isodrin
Isolan
Kepone
LAH
LANNATE
Lead arsenate
Lead arsenite
Lead cyanide
Lead Orthoarsenate
Lewisite
Lithium
Lithium aluminum hydride
Lithium amide
Lithium ferrosilicon
Lithium hydride
Lithium hypochlorite
London purple, Mixture of arsenic trioxide, aniline, lime, and ferrous oxide
Magnesium
Magnesium arsenate
Magnesium arsenite
Maleic anhydride
Manganese arsenate
Manganese dimethyldithiocarbamate.
Manganese, bis(dimethylcarbamo dithioato-S,S')-,
Manganous arsenate
MARLATE
m-Cumenyl methylcarbamate.
MECARBAM
Medinoterb acetate
Mercuric chloride
Mercuric cyanide
Mercury
Mercury Chloride
Mercury compounds
Mercury Cyanide
Mercury fulminate
Mercury, (acetato-O)phenyl-

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
meta-isopropylphenyl-N-methylcarbamate, Ac 5,727
METAISOSYSTOX-SULFON
Methanamine, N-methyl-N-nitroso-
Methane, isocyanato-
Methane, oxybis[chloro-
Methane, tetranitro- (R)
Methanethiol, trichloro-
Methanimidamide, N,N-dimethyl-N'-[2-methyl-4- [[[(methylamino)carbonyl]oxy]phenyl]-
Methanimidamide, N,N-dimethyl-N'-[3- [[[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride.
Methiocarb
Methomyl
Methoxychlor
Methoxyethylmercuric chloride
Methyl bromide
Methyl Chlorocarbonate
Methyl chloroformate
Methyl chloromethyl ether
Methyl hydrazine
Methyl isocyanate
Methyl parathion
Methyl Sulfate
Methyl Sulfide
Methyl Yellow
Methylaluminum sesquibromide
Methylaluminum sesquichloride
Methyldichloroarsine
Methyldichlorosilane
Methylmagnesium bromide
Methylmagnesium chloride
Methylmagnesium iodide
Methyltrichlorosilane
Metolcarb
Mevinphos
Mexacarbate
MINTACOL
Mirex
MMH
MOCA
MOCAP
Monomethyl Hydrazine
Muriatic Acid
n-Butyllithium (and isomers)
n-Butyltrichlorosilane
NIA 10,242
NIALATE
Nickel arsenate, Nickelous arsenate
Nickel carbonyl

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Nickel cyanide
Nickel tetracarbonyl
Nicotine, & salts
Nitric oxide
Nitrobenzene
Nitrobenzol
Nitrogen dioxide
Nitrogen oxide NO
Nitroglycerine
Nitrophenol (ortho, meta, para)
N-Nitrosodimethylamine,
N-Nitrosomethylvinylamine
Nonyltrichlorosilane
n-Propyltrichlorosilane
O,O,O',O'-Tetraethyl-S,S-methylenediphos-phorodithioate
O,O-Diethyl O-pyrazinyl phosphorothioate
O,O-Diethyl S-(N-ethoxycarbonyl N-methylcarba-moyl-methyl) phosphorodithioate
O,O-Diethyl S-[2-(ethylthio) ethyl] phosphorodithioate
O,O-Diethyl-O-[4-(methyl--sulfinyl)phenyl]phosphorothioate
O,O-Diethyl-O-para-nitrophenyl phosphorothioate
O,O-Diethyl-O-para-nitrophenylphosphate
O,O-Diethyl-S-(isopropylthiomethyl) phosphorodithioate
O,O-Diethyl-S-[(Ethylthio)methyl]phosphorodithioate
O,O-Diethyl-S-carboethoxy--ethyl phosphorodithioate
O,O-Dimethyl-O-para-nitrophenyl—phosphorothioate
O,O-Dimethyl-S-4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl phosphorodithioate
O,O-Tetramethylthiuram monosulfide
OCMB
Octadecyltrichlorosilane
Octamethylpyrophosphoramide
Octyltrichlorosilane
O-Ethyl O-para-nitrophenyl phenylphosphonothioate
O-Ethyl-S,S-dipropyl phosphorodithioate
O-Ethyl-S-phenylethyl phosphonodithioate
O-Isopropyl methyl phosphoryl fluoride
Oleum
OMPA
O-para-Cyanophenyl-O-ethyl phenyl phosphonothioate
ortho,ortho-Diethyl-ortho-(3-chloro-4-methylcoumarin-7-yl) phosphate
ortho-Chlorobenzylidene malonitrile
Orthozenol
Osmium oxide
Osmium tetroxide
Oxamyl
Oxygen difluoride
para-(5-Amino-3-phenyl-1H-1,2,4-triazol-1-yl)-N,N,N',N'-tetramethylphosphonic diamide
Para-oxon

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Parathion
Paris green
PCB
p-Chloroaniline
PENSAL
Pentaborane
Perchloromethyl mercaptan
Pextox 14
Phenarsazine Chloride
Phenol, (3,5-dimethyl-4-(methylthio)-,methylcarbamate
Phenol, 2-(1-methylpropyl)-4,6-dinitro-
Phenol, 2,4,6-trinitro-, ammonium salt
Phenol, 2,4-dinitro-
Phenol, 2-cyclohexyl-4,6-dinitro-
Phenol, 2-methyl-4,6-dinitro-, & salts
Phenol, 3-(1-methylethyl)-, methylcarbamate.
Phenol, 3-methyl-5-(1-methylethyl)-,methyl carbamate.
Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester).
Phenylbenzene
Phenyldichloroarsine
Phenylmercury acetate
Phenylphenol
Phenylthiourea
Phenyltrichorosilane
Phorate
PHOSDRIN
Phosfolan
Phosgene
Phosphoryl Bromide
Phosphamidon
Phosphine
Phosphoric acid, diethyl 4-nitrophenyl ester
Phosphoric Chloride
Phosphoric Sulfide
Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester
Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
Phosphorofluoridic acid, bis(1-methylethyl) ester
Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester
Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
Phosphorothioic acid,O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
Phosphorus (white or yellow)
Phosphorus oxybromide
Phosphorus oxychloride
Phosphorus pentachloride
Phosphorus pentasulfide

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Phosphorus sesquisulfide
Phosphorus tribromide
Phosphorus trichloride
Phosphoryl Chloride
PHOSTOXIN
Physostigmine salicylate.
Physostigmine.
Platinum compounds
Plumbane, tetraethyl-
p-Nitroaniline
Polychlorinated biphenyls
Polychlorocamphene
Potassium
Potassium Acide Fluoride
Potassium arsenate
Potassium arsenite
Potassium bifluoride
Potassium cyanide K(CN)
Potassium hydride
Potassium silver cyanide
Promecarb
Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime
Propanal, 2-methyl-2-(methylthio)-,O-[(methylamino)carbonyl]oxime
Propanenitrile
Propanenitrile, 2-hydroxy-2-methyl-
Propanenitrile, 3-chloro-
Propargyl alcohol
Propargyl bromide
Propyleneimine
Prothoate
Pyranol
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts
Pyrosulfuryl chloride
Pyrrolo[2,3-b]indol-5-ol,1,2,3,3a,8,8a-hexahydro-1,3a,8- trimethyl-,methylcarbamate (ester), (3aS-cis)-.
Quinone
RACUMIN 57
RATOX
S,S-1,4-dioxane-2,3-diyl bis(O,O-diethyl phosphorodithioate)
S-[(5-Methoxy-2-oxo-1,3,4-thia-diazo13(2H)-yl)methyl] -O,O-dimethyl phosphorodithioate
S-[(5-Methoxy-4-oxo-4H-pyran-2-yl)-methyl] O,O-dimethyl phosphorothioate
S-[(4-Chlorophenyl)thio]methyl] 0,0-diethyl phosphorodithioate
S-[2-(ethyl-sulfonyl)ethyl] O,O-dimethyl phosphorothioate
Salicylated mercury
Schradan
Selenious acid and salts
Selenium
Selenium compounds

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Selenium fluoride
Selenourea
Selenous acid
Silicochloroform
Silicon Chloride
Silicon tetrachloride
Silver acetylide
Silver cyanide Ag(CN)
SINOX
S-Methyl-N-((methyl-carbamoyl)oxy) thioacetimidate
Sodamide
Sodium
Sodium Acid Fluoride
Sodium aluminum hydride
Sodium amide
Sodium arsenate
Sodium arsenite
Sodium azide
Sodium bifluoride
Sodium cacodylate
Sodium cyanide Na(CN)
Sodium dimethylarsenate
Sodium hydride
Sodium hypochlorite
Sodium methoxide
Sodium methylate
Sodium peroxide
Sodium potassium alloy
Sodium selenate
S-para-Chlorophenyl-2,4,5-trichlorophenyl sulfide
Strontium arsenate
Strychnidin-10-one, 2,3-dimethoxy-
Strychnine and salts
Sulfonyl Chloride
Sulfonyl Fluoride
Sulfotep
Sulfur chloride
Sulfur Monochloride
Sulfur mustard
Sulfur oxychloride
Sulfur pentafluoride
Sulfuric acid, dithallium(1+) salt
Sulfuryl chloride
Sulfuryl fluoride
SUPRACIDE
SURECIDE
SYSTOX

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
TCDD
TDI
TEDP
TEL (and other organic lead)
Tellurium hexafluoride
TELODRIN
TEMIK
TEPA
TEPP
Tetraethyl lead
Tetraethyl pyrophosphate
Tetraethyldithiopyrophosphate
Tetramethyl succinonitrile
Tetramethylphosphorodiamidic fluoride
Tetranitromethane
Tetraphosphoric acid, hexaethyl ester
Tetraphosphorus Trisulfide
Tetrasul
Thallic oxide
Thallium
Thallium compounds
Thallium oxide
Thallium Sulfate
Thallium(I) selenite
Thallium(I) sulfate
Thallosulfate
THIMET
Thiocarbonylchloride
THIODAN
Thiodiphosphoric acid, tetraethyl ester
Thiofanox
Thioimidodicarbonic diamide
Thionazin
Thionyl chloride
Thiophenol
Thiophosgene
Thiophosphoryl chloride
Thiosemicarbazide
Thiourea, (2-chlorophenyl)-
Thiourea, 1-naphthalenyl-
Thiourea, phenyl-
Tirpate.
Titanic Chloride
Titanium tetrachloride
Toluene-2,4-diisocyanate
Toxaphene
TRANID

Appendix C – Table of EH&S Acutely Hazardous Waste

EH&S ACUTELY HAZARDOUS WASTES
Triamiphos
Trichloroborane
Trichloromethanethiol
Trichloromethylsulfenylchloride
Trichloronitromethane
Trichlorosilane
Triethylenephospho-ramide
Trifluoromethylbenzene
tris(1-Aziridinyl) phosphine oxide
TRITHION
trychnidin-10-one, & salts
UDMH
ULTRACIDE
Vanadic acid anhydride
Vanadic acid, ammonium salt
Vanadium oxide
Vanadium pentoxide
VAPONA
Vinyl chloride
Vinylamine, N-methyl-N-nitroso-
Vinyltrichlorosilane
Warfarin, & salts, when present at concentrations greater than 0.3%
WEPSYN 155
WP 155
ZECTRAM
Zinc arsenate
Zinc arsenite
Zinc cyanide
Zinc ethyl
Zinc phosphide
Zinc phosphide, when present at concentrations greater than 10%
Zinc, bis(dimethylcarbamo dithioato-S,S')-,
ZINOPHOS
Ziram
Zirconium chloride
Zirconium Tetrachloride

Hazardous Waste Management Guidebook

APPENDIX D

FORMS

Satellite Accumulation Area/Hazardous Waste Weekly Inspection Sheet

Date	Containers Labeled?	Containers Capped?	Containers undamaged, free of leaks and spills?	Containers properly stored within secondary containment?	Incompatible wastes segregated in separate secondary containment?	Base under containers in good condition?	Comments	Initials	Print Name

KEEP ON FILE IN THE INSPECTED LAB FOR REVIEW BY EH&S

If you have any questions, Contact EH&S @ 829-3301

Hazardous Waste Management Guidebook

ATTACHMENT 1

UNIVERSITY AT BUFFALO CAMPUS COMMITMENT TO SAFETY

The University at Buffalo
The State University of New York

CAMPUS COMMITMENT TO SAFETY

The Senior Administration of the University at Buffalo is committed to the safety, health and well being of its students, faculty, staff and visitors. Faculty and staff have the responsibility to promote health and safety in their environment and operations. All members of the University community are expected to support this commitment.

Environment, Health & Safety (EH&S) Services, in consultation with stakeholders, shall develop safety and environmental compliance standards, policies and procedures to guide the University community in meeting this commitment to safety.

Such standards, policies and procedures, once adopted, shall be binding upon all members of the University community.

Safety issues involving personal safety and security are the province of the University Police.

Any individual who knowingly and willfully, or in a highly negligent manner, violates a safety or environmental law, regulation, or EH&S policy may be subject to University discipline, civil or criminal action.

Office of the Provost
Office of the Senior Vice President
02/09/12

University at Buffalo
The State University of New York

Safety Commitments and Responsibilities Defined

Administrators, Managers and Supervisors:

All management and supervisory staff are responsible for safety performance in their areas and for ensuring departments and other units under their supervision have effective programs to meet their safety obligations. This includes reviewing matters such as health and safety programs as they relate to all activities at the University, including but not limited to, biohazards, chemical hazards, radiation safety and fire and life safety issues. This also includes providing appropriate safety equipment, adequately designed workspace that provides a safe working environment and personal protective equipment to employees to perform their work safely. The Administrative Official (i.e., Dean, Department Head, Director) may designate a departmental safety coordinator or departmental safety committee to carry out the departmental health and safety responsibilities, but still remains accountable for providing and promoting effective health and safety programs.

Environment, Health and Safety Services:

EH&S advises senior leadership on levels of compliance and risks related to EH&S matters and will function as consultants to unit heads, faculty/staff members and students in all areas of environmental compliance, safety and radiological health. EH&S will make routine, as well as special health and risk appraisals or investigations when necessary or requested, will assist departmental safety committees in the development of intra-departmental safety programs and participate in health and safety training and education projects.

EH&S will review and stay current with applicable safety rules and regulations from local, state and federal agencies affecting campus operations and will assist in the technical interpretation of these rules and regulations. In addition, campus operations will be conducted in accordance with the best available recognized standards (i.e., best practices) in situations where no policy or requirement of a local, state or federal agency exists. Examples of such standards would include those promulgated by the National Fire Protection Association, the American National Standards Institute, the National Institute for Occupational Safety, etc.

EH&S will develop, for appropriate review and approval, environmental health and safety standards and policies, which shall be binding once adopted.

EH&S will assist in the identification and assessment of actual or potential health and safety hazards and will identify applicable regulations, standards or similar requirements. EH&S will inspect campus operations and facilities, student activities and special events to identify problems, will provide code interpretations and consult with departments to assist in correcting problems. Inspections may be conducted routinely, or at the request of any member of the University community, or in response to accidents or other known problems.

EH&S has the responsibility and authority to intervene to control, reduce or eliminate any condition or activity which poses a direct or immediate safety threat to any individual or illegal discharge to the air, ground or water. The University Police may assist EH&S in meeting this responsibility. Long term resolution or correction of problems, should this occur, is the responsibility of the appropriate dean, director or department head. EH&S will maintain reference materials in support of health and safety training. EH&S will assist the University community in providing appropriate and necessary health and safety training to all staff and students. This assistance will include direct training, train the trainer support and assistance in developing customized or special training programs.

Principal Investigators and Supervisors:

Principal Investigators and Supervisors have responsibility to provide a healthy and safe work environment for the individuals they supervise, for safe management of the facilities or laboratories they operate and for the impacts of their activities on the environment and health and safety of the public.

Responsibilities include:

1. Informing new employees about environmental safety and health procedures, rules and regulations and their specific responsibilities.
2. Assuring that required equipment and personal protective devices are provided, maintained and used.
3. Taking prompt action when unsafe acts or conditions are reported or observed.
4. Insuring that individuals receive safety training as required by their responsibilities.
5. Promptly investigating and reporting all on-the-job accidents, and/or work related health problems and requesting medical treatment if required.
6. Coordinating or conducting internal inspections, reviews or audits to assure safe and healthful conditions and compliance with applicable safety and environmental regulations.
7. Providing or acquiring necessary resources for necessary health and safety equipment, materials and facilities
8. Ensuring that employees receive special medical evaluations or biological monitoring when required for their job (i.e. vaccinations, respirator user medical examinations, medical surveillance required by certain regulations, etc.).
9. Ensuring the authorized and legal receipt, transfer and/or disposal of hazardous materials.
10. Ensuring that any hazardous materials in their area of responsibility are properly secured against theft.
11. Becoming familiar with the UB All Hazard Emergency Plan.
12. Assist and cooperate with EH&S activities.

All Employees:

All employees have the responsibility to comply with health and safety rules, regulations, policies and procedures.

These responsibilities include:

1. Following safety, health, and environmental standards, rules, policies, regulations, procedures and orders.
2. Reporting hazardous conditions to their supervisor and/or EH&S.
3. Wearing prescribed personal protective equipment and utilizing established engineering controls.
4. Reporting job-related injuries or illnesses to the supervisor and seeking prompt and appropriate medical treatment.
5. Refraining from operating equipment or apparatus, or conducting any procedure, without proper training and authorization.
6. Using, transferring and securing hazardous materials as prescribed.

Willful Noncompliance:

Any individual, who knowingly and willfully, or in a highly negligent manner, violates a safety or environmental law, regulation, or EH&S policy may be subject to University discipline, civil or criminal action. Such individuals may be denied legal representation pursuant to the Public Officer Law. The University will not accept ignorance of applicable laws, regulations or policies as an excuse.

Appendix 1

Prospective Safety Committee System

Mandatory Committees:

Reactor Decommissioning Safety Committee (RDSC) - oversees activities conducted at BMRC pursuant to Federal (Nuclear Regulatory Commission) License

Radiation Safety Committee (RSC) - oversees and reviews all users and protocols for use of radioactivity in campus labs (exclusive of BMRC) pursuant to Department of Health (DOH) and Environmental Conservation (DEC) license.

Cyclotron Safety Committee - oversees activities conducted at the Cyclotron pursuant to DOH and DEC license.

University Biosafety Committee (UBC) - reviews protocols for use of biohazard materials pursuant to NIH guidelines.

Labor Management Health and Safety Committee - a forum for discussion on health and safety issues between labor and management representatives pursuant to bargaining unit agreements.

Related Committees: (Mandatory)

Institutional Review Board (IRB) - provides oversight of human subjects research

Institutional Animal Care and Use Committee (IACUC) - provides oversight of safe and humane use of animals in research.

Proposed Committees:

Chemical Hygiene Committee - to provide oversight of safe use of chemicals and safety practices in laboratories, and to ensure compliance with applicable EPA and OSHA requirements.

Occupational Safety and Health Committee - to provide oversight of occupational health and safety efforts such as medical surveillance, mechanical and electrical safety, infection control, public health, and wellness programs.

Departmental or Decanal Committees - e.g. Chemistry Department Safety Committee, School of Medicine Safety Committee, Center for the Arts Safety Committee etc.