

# CHEMICAL WASTE GUIDELINES

## STEP 1 Waste Determination Process

Each person who generates waste must determine if the waste is hazardous, properly contain the waste and label the container. Refer to OSU's Hazardous Waste Determination process and appropriate waste lists at:

<http://oregonstate.edu/ehs/hazardous-waste-determination>

1. Is the "solid waste" excluded from the definition of a hazardous waste? Check exclusion list.	YES - waste is NOT hazardous NO - go to step 2
2. Is the material on the K, F, P, or U lists? Check lists or run Report from online chemical inventory program.	YES - waste IS hazardous NO - go to step 3
3. Does the waste exhibit one or more characteristic hazards? Check D-list or run Report from online chemical inventory program	YES - waste IS hazardous NO - go to step 4

4. Waste is not hazardous by state/federal hazardous waste regulations, but may be hazardous by local or OSU rules.



**Flammable** Materials that readily ignite and burn vigorously



**Corrosive** (Acids and Bases) Materials that corrode skin or metal



**Oxidizer and Organic Peroxides** Materials that release oxygen readily to stimulate the combustion of organic matter



**Reactive, Air or Water** Materials that react violently with Air or Water



**Toxic** Materials that contain a known carcinogen, mutagen, exhibit oral toxicity or harmful to the environment. May contain toxic metals or pesticides or are toxic to aquatic species

**NOTE: Chemical waste not in one of the above categories and not listed on the OSU excluded waste list, is characterized as Toxic.**

## STEP 2 All Chemical Waste Containers Must Be:

- In good condition with no leaks/cracks and compatible with the waste
- Stored in secondary containment
- Remain closed at all times except when adding waste
- Segregated from incompatible materials
- Labeled to identify constituents and concentration



## Chemical Spill Response

1. If a chemical spill is large or more hazardous than you are prepared to handle (with proper PPE and equipment), it is expanding outside your work area, or you are all uncomfortable with cleaning it up, call Public Safety (541-737-7000) and ask them to contact on-call EH&S personnel to respond
2. Provide the following information:
  - Your name and contact phone number
  - Location of the spill (Building and room number)
  - Approximate volume of spilled chemical
  - Name of chemical
3. Notify all other workers who could be affected by the spill and vacate, especially if the chemical poses an airborne health hazard
4. If safe wait at the entrance for EH&S personnel

## STEP 3 Labeling Chemical Waste

- Complete the on-line Hazardous Waste Training
- Conduct Waste Determination with the on-line waste determination process to identify Listed and Characteristic Waste
- Old, un-used or out-of-date chemicals should have EH&S chemical waste label
- Waste must remain at or near the point of generation
- On-line waste labels can be downloaded at: <http://oregonstate.edu/ehs/sites/default/files/pdf/hwlabelfull.pdf>
- Submit an on-line waste pickup request when the containers are full or after one month of accumulation

% Concentration

Chemical Name (in plain english)

Characteristics

## Drain Disposal (Local Limits)



- Liquids < 150 °F
- Liquids must be non-flammable
- Must not be viscous or solid
- pH of all discharged liquids to be 6.0 - 9.5
- Toxic, malodorous, or radioactive not allowed
- No petroleum oils, dyes, or organic solvents



# DISPOSAL OF SHARPS AND BROKEN GLASS

## START HERE:

Are you disposing of SHARPS such as needles, IV tubing with needles attached, scalpel blades, lancets, glass tubes, glass pipettes, microscope slides, syringes that have been either used or removed from their original packaging and are to be disposed of?

- SHARPS: Needles, IV tubing with needles attached, scalpel blades, lancets, glass tubes, glass pipettes, microscope slides, syringes that have been either used or removed from their original packaging.
- NEVER dispose of SHARPS in regular trash containers as this poses a safety hazard during trash handling.
- **ENSURE** sharps containers are available close to where sharps waste is generated.
- **DO NOT** overfill sharps containers or broken glass boxes; glass boxes must be tightly closed prior to disposal.
- DO NOT clip, bend, shear, or separate needles from syringes, or recap needles for disposal.
- **Follow the additional requirements below for the different materials:**

**NO**

Are you disposing of broken glass, lab glass or empty chemical containers that are free of all liquids or any biohazardous, chemical, and radioactive contaminants?

**YES**

### DISPOSAL:

- Place all lab glass items or broken glass in a broken glass box (available for purchase at Chemical Stores in Gilbert Hall). Use forceps or broom/dustpan and PPE for safe handling.
- Intact chemical containers that have had the label defaced and are free of any liquids or hazardous material can be disposed of in the regular trash or glass recycle bins.



**YES**

Have the SHARPS been used with **RADIOACTIVE MATERIALS**?



**YES**

### DISPOSAL:

- Place all SHARPS in a red sharps container labeled with a universal biohazard symbol.
- Sharps container must also be labeled "Caution Radioactive Material" and have a completed radioactive waste tag for each container.
- Submit waste pickup request at: <http://oregonstate.edu/ehs/waste>



Have the SHARPS been used with **CHEMICALS, BIOHAZARDOUS MATERIALS**, or have been removed from their original packaging and are to be disposed of?



**YES**

### DISPOSAL:

- Place all SHARPS in a red sharps container labeled with a universal biohazard symbol.
- Submit waste pickup request at: <http://oregonstate.edu/ehs/waste>



Have the SHARPS been used with **CONTROLLED SUBSTANCES**?

**DEA I-IV**

**YES**

### DISPOSAL:

- Place all SHARPS in a red sharps container labeled with a universal biohazard symbol.
- Sharps container to be stored within a locked cabinet or equivalent.
- Submit a waste pickup request at: <http://oregonstate.edu/ehs/waste>



Are the SHARPS specifically for **REUSE**?



**YES**

### REUSE:

- Reusable sharps should only be used when necessary.
- Place sharps for reuse in a hard-sided container with lid. Label this container appropriately for any hazards present.
- Sharps should be retrieved from storage using forceps or similar device.

