

# University of Delaware Laboratory Chemical Waste Disposal Guide

**ALL CHEMICAL WASTE MUST BE DISPOSED OF THROUGH THE DEPARTMENT OF GPXKQPO GPVCN HEALTH & SAFETY**  
<http://www.udel.edu/GHS>

## EXAMPLES OF CHEMICAL WASTE INCLUDE BUT ARE NOT LIMITED TO:

- Unused and surplus reagent chemicals
- Chemical waste generated from research & educational experiments and procedures
- Non-Returnable gas cylinders
- Batteries
- Spent solvents, Stains, Strippers, Thinners, Varnish and Wood Preservatives
- Spent Acids and Bases
- Used oil of all types
- Laboratory trash and personal protective equipment contaminated with chemicals
- Clean up debris generated from chemical spills
- Discarded equipment containing hazardous materials
- Photographic film processing solutions
- Pesticides, Herbicides, Fertilizers
- Formaldehyde and Formalin Solutions
- Mercury containing items (other heavy metals)
- Liquid and Acrylamide Gel Waste
- Sharps (Syringes, Needles, GC Syringes, Razor Blades, Pasteur Pipettes, Pipette Tips)
- Unused and Surplus Cleaners
  - Bleach, Windex, Ammonia, Carpet Cleaners, Disinfectants, Drain Cleaners, Oven Cleaners, Floor Wax, Floor and Wood Polishes, Toilet Cleaners, Spot Removers, etc.
- Computer and Electronic Equipment

**To Schedule A Chemical Waste Pick-Up Contact The Department Of " Environmental Health & Safety at <http://www.udel.edu/GHS/wastepickup.html>**

## Chemical Waste **MUST NOT** Be Discarded:

- ✓ Into Sink Drains
- ✓ As General Waste
- ✓ Into Dumpsters
- ✓ Into Storm Drains

## PACKAGING AND LABELING GUIDELINES

### ORIGINAL CONTAINER(S)



IF ORIGINAL LABEL(S) ARE IN GOOD CONDITION:

- Multiple containers of compatible chemicals may be placed in a cardboard box for disposal
- Ensure containers are sealed
- Place cardboard or packing material between containers to prevent breakage
- Attach a chemical waste label on the outside of the box along with a completed packing list

IF ORIGINAL LABEL(S) ARE LOOSE OR ILLEGIBLE:

- Complete and attach a chemical waste label to the container FOLLOWING THE DIRECTIONS on the back side of the label before placing in cardboard box

### CONTAINER OTHER THAN ORIGINAL

- Make sure container is in good condition and is clean or has been triple rinsed and original label is defaced
- Make sure container is compatible with the chemicals that will be placed in it
- Place a chemical waste label on the container FOLLOWING THE DIRECTIONS on the back side of the label
- Perform all liquid waste bulking in a properly operating fume hood with splash goggles, lab coat and appropriate gloves
- Keep the container sealed unless actively adding waste and stored in a secondary containment bin.

### CHEMICALLY CONTAMINATED SOLID WASTE

- Place materials in a heavy duty plastic bag inside of a cardboard box
- Place a chemical waste label on the outside of the box FOLLOWING THE DIRECTIONS on the back side of the label
- When full or not actively adding waste, tightly seal bag with tape or a bag closure tie
- Seal box with tape

### SHARPS

- All discarded sharps, used and unused, must be disposed of in a sharps container supplied by the Department of Environmental Health & Safety
- Refer to examples of chemical waste listed above for types of sharps that must be disposed of properly

### DISPOSAL OF SAMPLE VIALS OR SMALL CONTAINERS

- Obtain a clean 5 gallon polyethylene pail
- Line the pail with a heavy duty plastic bag
- Place a chemical waste label on the outside of the pail FOLLOWING THE DIRECTIONS on the back side of the label
- Only sealed, compatible vials / small containers (15 Milliliters / 15 Grams or less) can be placed in the lined pail
- Be careful not to break or damage the containers when placing items in the lined pail
- When full or not actively adding waste, tightly seal bag with tape or a bag closure tie

### CLEAN GLASS DISPOSAL / EMPTY CHEMICAL CONTAINER DISPOSAL

- Empty chemical containers must be triple rinsed and labels defaced prior to disposal as normal trash
- Do not replace caps on containers. Containers with chemical residue must be disposed of as chemical waste
- Clean laboratory glass or triple rinsed glass containers should be disposed of in a glass only box
- Larger, triple rinsed, uncapped, defaced bottles / containers should be disposed of directly into dumpsters outside the building
- Refer to the University's Web Site: <http://www.udel.edu/EHS/glassdisp.html> for more information on glass disposal procedures

CHEMICAL / HAZARDOUS WASTE FOR DISPOSAL

Generator: K Exchange Date: 12/2/97  
Bldg.: General Services Room# 132  
Telephone Number: 83375

Circle the appropriate waste stream for this container:  
 Acid  Aqueous  Caustic  Reagent  Solvent  Other

CHEMICAL	VOLUME
Hydrochloric Acid 2M	50%
Acetic Acid (dilute)	20%
Water	30%
Silver	2ppm
Chromium	10ppm

CHECK ALL THAT APPLY

Flammable  Corrosive  Oxidizing  Toxic  Irritant  Reactive  Inert  Non-hazardous  Liquid  Solid  Gas  Aerosol  Hazardous Material

Contact the EHS at 831-6475 for Chemical Waste Pickup  
SEE REVERSE SIDE FOR DIRECTIONS



**Use a secondary container to store all liquid wastes**



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