

Hazardous Materials Management and Labeling, Chemicals Security, Chemical Inventory, Solutions Labeling, Glassware Cleaning.

Hazardous Materials Management and Labeling:

Hazardous Materials Collection – **Any material added should be listed on the waste label.**

Five Waste Streams in Department:

1. Non-halogenated Flammable Organic (note each item added to collection on label)
 - a. Acetone
 - b. Toluene, hexanes, ligroin, etc.
 - c. Methanol, ethanol, isopropanol, etc.
 - d. Ethyl acetate
 - e. Ether
 - f. Acetonitrile
 - g. Other non-halogenated organics
 - h. May contain some water—but not much

Acetone should NEVER be poured into a sink!

REPORT sink contamination

(Use the Acetone wash containment in HH-324 & HH-325 labs)

2. Halogenated Organic (note each item added to collection on label)
 - a. Methylene chloride (dichloromethane)
 - b. Chloroform
 - c. Other halogenated organics
3. Flammable-Halogenated Organic (mixture of #1 & #2.....try not to do this)
4. Organic Solids
5. Aqueous Metal ion solutions

THESE WASTE STREAMS CANNOT BE MIXED!

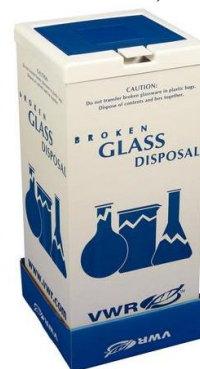
All materials must be identified as they are properly disposed.

All materials must be retained in a **closed, identified** bottle.

All full containers must be stored in the satellite facility found in each room.

Waste materials **cannot be moved** from room to room.

- Other Hazardous Waste Streams should also be labeled:
 1. Broken Glassware and used glass pipets (do not include solid chemical waste)
Dispose only in appropriate (labeled) boxes.
 2. Sharps—should only be placed in approved waste containers
NEVER in the trash.



Chemicals Security:

*All chemicals are available only on an “as needed” basis.

Any chemical not in immediate use must be stored in a secure area: stockroom or locked cabinet.

Any unclaimed chemicals in a non-secure location must be returned to a secure location.

*The stockroom doors must not be propped open.

*Guests must be monitored.

*Missing chemicals must be reported.

Chemical Inventory:

*All commercial chemical bottles have a chemical inventory label attached.

*Commercial bottles that are missing inventory labels must be identified by placing them in the appropriate temporary inventory location (stockroom).

*Empty commercial bottles with their inventory label must be placed in the appropriate temporary inventory location (stockroom).

Solutions Labeling:

All solutions or compounds placed in non-original containers MUST be labeled with the following:

1. Compound
2. Solution concentration or pH
3. Class or Mentor
4. Date

Glassware cleaning:

1. Wash per teacher instruction.
2. Use deionized water for the last rinse only.
3. Dry as per teacher instruction.