

Appendix Safety (lab safety rules, chemical hygiene plan, disposal of chemicals)

Safety Rules UTC Department of Chemistry (For student to Keep)

It is the policy of the Department of Chemistry to provide a safe environment for students and faculty performing laboratory work. The instructor will explain the use of safety equipment in the laboratory and indicate specific hazards associated with each experiment. However, it is the responsibility of each student to be safety conscious, to recall and observe safety warnings, and to work in such a manner that his or her actions do not result in injury to any laboratory worker.

The following general rules of safety have been adopted by the Department of Chemistry.

- (1) Safety goggles must be worn at all times in the laboratory.
- (2) All warning signs and statements must be obeyed.
- (3) Students must conduct themselves in a professional manner in the laboratory.
- (4) Students are not permitted to work alone in the laboratory.
- (5) Unauthorized experiments are not permitted.
- (6) Chemicals and other materials are not to be removed from the laboratory.
- (7) Students are not permitted in the stock rooms.
- (8) All accidents, injuries, and fires must be reported immediately to the laboratory instructor.
- (9) Eating, smoking, and consuming beverages in the laboratory are prohibited.
- (10) Chemicals for disposal must be properly labeled.
- (11) Students should learn the location and operation of fire extinguishers, safety showers, and eye-wash stations.

I have read this page and I will observe these departmental safety rules in my work.

Chemical Hygiene Plan

Refer to the Chemical Hygiene Notebook located in the laboratory for details.

Standard Operating Procedures

Housekeeping

Criteria for Safety Measures

Chemical Inventory

Material Safety Data Sheets (source for hazard, reactivity, health, protection information, etc.
MSDS are available online)

Chemical Storage

Labeling

Engineering Controls

Contaminated Waste Removal

Administrative Controls

Record Keeping

Personal Protective Equipment

Goggles

Chemicals Requiring Approval for Use

Medical Consultations and Examinations

Chemical Hygiene Plan Responsibilities

Additional Safety Requirements Other Than Hazardous Chemicals

Hazardous Waste Disposal

UTC Department of Chemistry

Hazardous Wastes: Volatile Liquids

Bottles for volatile liquid hazardous wastes are located in the hood. Place volatile hazardous waste liquids in the hazardous waste bottle labeled for that specific chemical. For example, the bottle for used cyclohexane would be labeled

Hazardous Waste - Physical Chemistry Cyclohexane August 24, 2009 Prof. Kutz/Rybolt
--

Do not place any chemicals other than the specific chemical in such a bottle.

In the past, we used to be able to pour small amounts of water-soluble solvents like acetone and methanol down the sink. This is no longer the case. All volatile liquids must be placed in the appropriate hazardous waste bottle.

Water Soluble Nontoxic Chemicals

Small amounts of water soluble nontoxic chemicals may be flushed down the drain with appropriate volumes of water. Examples are: sodium chloride solution, dilute acids, and dilute bases. Small means 100 mL or less. If you are unclear about a particular sample, consult with the instructor.

Inert Nontoxic Solids

Wrap inert nontoxic solids in a paper towel and dispose of in the waste basket. Examples are: activated charcoal, boiling chips, vitamin A capsules.

Broken Glass

Place broken glass in the special cardboard box identified for this purpose. Never put any glass in regular trash.

Mercury

Broken mercury thermometers and mercury spills should be called to the instructor's attention immediately.

Safety Rules UTC Department of Chemistry (To sign and give to instructor)

It is the policy of the Department of Chemistry to provide a safe environment for students and faculty performing laboratory work. The instructor will explain the use of safety equipment in the laboratory and indicate specific hazards associated with each experiment. However, it is the responsibility of each student to be safety conscious, to recall and observe safety warnings, and to work in such a manner that his or her actions do not result in injury to any laboratory worker.

The following general rules of safety have been adopted by the Department of Chemistry.

- (1) Safety goggles must be worn at all times in the laboratory.
- (2) All warning signs and statements must be obeyed.
- (3) Students must conduct themselves in a professional manner in the laboratory.
- (4) Students are not permitted to work alone in the laboratory.
- (5) Unauthorized experiments are not permitted.
- (6) Chemicals and other materials are not to be removed from the laboratory.
- (7) Students are not permitted in the stock rooms.
- (8) All accidents, injuries, and fires must be reported immediately to the laboratory instructor.
- (9) Eating, smoking, and consuming beverages in the laboratory are prohibited.
- (10) Chemicals for disposal must be properly labeled.
- (11) Students should learn the location and operation of fire extinguishers, safety showers, and eye-wash stations.

I have read above and will observe these departmental safety rules in my lab work, will dispose of chemicals according to rules given, and I am aware of UTC Chemical Hygiene Plan.

Signature

Date

Printed Name