

ANGELINA COLLEGE HAZARDOUS WASTE DISPOSAL INSTRUCTIONS	
NO. EI-01 6.1.a	TITLE: Chemical Waste Disposal PAGE 1 of 2 ISSUED: 11/2012 REVISED: 02/2024

Introduction

To prevent injury, minimize environmental health hazards, and meet regulatory requirements, campus hazardous waste generators must comply with strict chemical waste disposal procedures. It is the policy of Angelina College that only faculty and staff should handle chemical waste. Faculty and staff should be familiar with the information so that campus waste is disposed of in a safe, efficient, and legal manner.

- **Do not dispose of hazardous chemicals via sink or trash cans.**
- **Do not use fume hoods to intentionally evaporate chemicals.**
- **Do not store waste outside prep rooms.**
- **Do not abandon hazardous materials and waste.**

CHEMICAL WASTE

Minimize Generation

- Review each experimental protocol to assure that hazardous and radioactive reagents are used efficiently and that excess purchases are minimized.
- Conduct micro-scale processes to minimize hazardous materials used and generated.
- Use substances which can be neutralized or stabilized, either physically or chemically. Use radioactive materials which can be practically stored for decay (half-lives less than 60 days).
- Substitute with less hazardous materials.
- Always plan ahead (budget, supplies, storage, etc.) with regard to hazardous waste disposal.

Chemical Waste Storage

- Store chemicals in appropriate containers.
- Containers must be completely sealed to prevent spillage (no open-top glassware!).
- Liquid waste must be in screw top containers only, and must not be filled over 80%.
- Gas cylinders and lecture bottles must have regulators removed.
- Biohazard bags are for Biohazardous or Medical waste only.
- Sharps must be stored in puncture-proof containers.
- Store chemical waste in a designated location (low traffic, safe, secure, contained, etc.). Label this storage area as "Hazardous Waste Storage Area".

Labeling of Chemical Waste

- Label the hazardous waste type, providing all necessary chemical information.
- All hazardous waste containers must be labeled with the words "Hazardous Waste".
- Do not lose track of container contents! All unknowns must be analyzed and their hazardous components identified at the generator's expense.
- Waste must be identified by chemical name. Labels such as "Inorganic Waste" and "Organic Waste" are not adequate. No abbreviations should be used.
- All constituents in solid and liquid mixtures must be identified, and to the extent possible their concentrations stated.
- Identify the chemical hazard classification(s) of the waste (i.e.: Flammable, corrosive, oxidizer, etc.).
- Any original / existing labels must be defaced by either removal or lining out.
- Date the container when the first waste is added or when it becomes a waste. Dispose of hazardous waste containers in a timely manner. Under no circumstances store hazardous waste containers for more than 270 days or 9 months.

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**Segregation Hazardous Waste
Chemicals**

- Segregate solids, liquids, and gases.
- Segregate into the following categories:
 - Halogenated organics
 - Non-halogenated organics
 - Alkali metals and other water reactive
 - Heavy metal solutions and salts
 - Strong oxidizers
 - Peroxide-forming chemicals
 - Cyanides
 - Chemical carcinogens
 - Unstable chemicals
 - Other toxic materials

Biohazardous material: Contact the School of Science and Mathematics at (936) 633-5255 for more information.

Disposal Procedure

- To request a chemical waste pickup, please contact the Manager of Environmental Health & Safety and Emergency Management via campus mail.
- The Manager of Environmental Health & Safety and Emergency Management cannot accept responsibility for improperly labeled, packaged, and / or segregated chemicals.
- Transferring waste into appropriate containers is the generator's responsibility.
- To discuss disposal procedures, options, and / or projects related to hazardous waste disposal contact the Manager of Environmental Health & Safety and Emergency Management at (936) 633-3244.

Spill Event

- For emergencies involving chemical spills, call 911.
- For technical assistance in non-emergencies involving chemical spills, call the Manager of Environmental Health & Safety and Emergency Management at (936) 633-3244
- For chemical spills in which technical assistance is not needed, see the Spill Cleanup Procedure (No. 6.1.b). The Manager of EH&S and Emergency Management must be notified for compliance purposes and to arrange pickup of the spill material.