

# **Standard Operating Procedures**

## **Hazardous Chemical and Solid Wastes Disposal**

**1. Introduction:** This procedure describes the requirements for the management of Hazardous Chemicals and Solid waste disposal at Nashville State Community College. Chemical substances that are classified as Hazardous Chemical Substances will be accompanied by Material Safety Data Sheets (MSDS) and shall be available to all employees exposed to potentially hazardous chemicals, catalysts or laboratory chemicals.

### **1.1 Purpose**

The purpose of this SOP is to ensure proper disposal of hazardous chemicals and solid wastes. This procedure describes the requirements for the management of chemical substances, waste and their (MSDS).

### **1.2 Scope**

This SOP pertains to the Chemistry labs at Nashville State Community College. This procedure includes Nashville State Community College use of hazardous chemicals and disposal of solid waste substances in the college's Chemistry labs, maintenance of college and equipment and products stored or handled on site. Hazardous chemicals may be solids, liquids or gases, being raw materials, by-products, cleaning solvents, etc.

### **1.3 Training**

The instructors, students, and laboratory assistants working in the chemistry labs are briefed in safety at the beginning of each semester.

Security and Safety is responsible for contacting proper authorities in the event of a hazardous waste situation.

### **1.4 Definitions**

Hazardous wastes are defined as wastes that are potentially harmful to human health or the environment.

### **1.5 Precautions**

Areas for waste accumulation are designated with signs.

### **1.6 Responsibility**

The laboratory assistant and chemistry coordinator are responsible for proper collection/containment of chemical waste within the chemistry laboratories.

Safety and Security are responsible for coordinating disposal of collected wastes within the institution.

### **1.7 Equipment**

Wastes are stored in flame-proof non-metallic safety cans.

Spill cleanup kits for acid, caustic, flammable, and mercury wastes are provided within the laboratories.

## **2. Procedure**

- All chemicals are disposed of in accordance with state and local regulations.
- Chemicals that in accordance with drain disposal guidelines will be disposed of in that matter.

<http://www.ehs.berkeley.edu/pubs/guidelines/draindisppls.html#appendix3>

- Chemicals used in the laboratory that cannot be drain-disposed of are collected in individual, labeled waste beakers.
- Quantities and type of accumulated wastes are recorded and stored in flame-proof waste containers until they can be picked up by a disposal company.
- Security and Safety are contacted in the event of a hazardous waste spill.

## **3. Reference**

Guidelines for Drain Disposal of Chemicals at University of California, Berkely, 2008,  
<http://www.ehs.berkeley.edu/pubs/guidelines/draindisppls.html#appendix3>.