

# Solid Chemical Waste Collection and Disposal

## Standard Operating Procedure

Lab: ESB 155

Department: Materials Science and Engineering

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### Section 1: Overview

Type of SOP:  Process       Hazardous Material       Hazardous Class of Materials       Equipment

Synopsis:

*This SOP describes the proper procedure for handling the collection and disposal of solid chemical waste.*

### Section 2: Risk Assessment Summary (Hazards and control measures)

*Information obtained from performing a risk assessment should be entered into this section.*

Materials:

Material (name, CAS #, other ID)	Hazards
*specific to individual process	

Relevant References for Material Hazards:

[Sigma Aldrich](#)

Equipment Hazards:

Equipment is considered low hazard.

Hazardous Conditions:

Conditions considered low hazard.

Technique Hazards:

Technique is considered low hazard.

Personal Protective Equipment

The following PPE are needed in addition to proper lab dress:  
Safety glasses  
Nitrile Gloves

\*Additional PPE may be necessary for specific chemical disposal. Please consult MSDS of chemical before handling.

#### Engineering Controls

This process should be completed within a fume hood if chemicals being disposed of should be handled in a fume hood during normal use.

### **Section 3: Procedures**

Collect solid waste items inside a plastic ziplock bag. (If waste is not compatible with plastic bag, place waste in a compatible container)

**Bag/Container should be labeled with the following information:**

1. WASTE
2. Name of Waste Generator
3. Name of Chemicals inside container (no abbreviations or shorthand)
4. Date of when waste stream began

Waste bag/container should be placed in a secondary containment bucket in the chemical waste storage shelf.

Waste should be disposed of if one of the three conditions is met:

1. Three months have passed since the waste container was started
2. Waste container is full
3. Process that generates waste is complete and no more of this waste will be created.

Disposal instructions are included in Section 4.

### **Section 4: Waste Disposal/Cleanup**

**Waste Generator:**

Fill out chemical waste description form and give to designated Chemical Waste Disposal person

**Chemical Waste Disposal Person:**

Determine which [CWM TRK](#) form is necessary based on the type of waste.

Fill out necessary form and mail to DRS (ChemTrak, DRS, 102 EHSB, MC-255.)/Drop off at DRS Building

Place DRS pick up stickers on containers when received from DRS.

Make sure lab is open to DRS staff on day of pick-up

### **Section 5: Emergency Response**

If waste container breaks, find a new container. Consult MSDS for particular chemical to clean up mess left behind in secondary container.

### **Section 6: Additional Information**

Advice:

1. Consult lab manager/lab safety person/chemical waste disposal person if unsure how to properly deal with chemical
2. Contact [DRS](#) if there are questions of how to properly store waste.

Checklist:

- Read (Material) Safety Data Sheets for chemical being disposed
- Proper container is used for type of chemical waste
- Waste has been properly labeled
- Waste is disposed of in a timely manner (less than three months after start date)

References:

