



Hazardous Waste Disposal

LIQUID CHEMICAL WASTES

Chemical wastes should be **segregated as much as possible**. Segregation helps to provide recycling and treatment opportunities. Combining chemical wastes can be dangerous as chemicals can react. Combined chemicals are expensive and environmentally costly to dispose of. Segregate as much as possible. *Ideal segregation groups are: non-halogenated organics, halogenated organics, acids, bases, heavy metals, and aqueous wastes.*

HOW TO DISPOSE

- Collect liquid waste in an HSE approved container (request containers through Hazardous Waste Inventory System (HWIS) as “Other Wastes”)
- During collection keep records of the contents. The chemical waste tag can be used to track contents.
- Cap/seal container when not in use and prior to pick-up. Store materials in an appropriate location for the contents. For volatile or chemicals that may off-gas, use a **venting cap** (available through HSE).
- As many solvents are also flammable, they should be stored in a flammable storage cabinet.
- Fill out the Chemical Hazardous Materials Disposal tag. Description on waste tag must be:
 1. in English with no abbreviations (unless abbreviation is used in Section 1 of the SDS (ie L-DOPA)
 2. in percent, and
 3. components should total 100%
- Chemical wastes in their **original bottles** (not mixed) do not require a description on the tag
- Register your waste as “Chemical Wastes” through the Hazardous Waste Inventory System (HWIS)
- Prior to pick up please ensure:
 1. exterior of container is not contaminated
 2. container is sealed/capped
- Attach Chemical Waste Disposal tag (available from HSE Hazardous Materials Webpage)

Correct Descriptions:

80% acetone, 15% methanol, 5% Omega Biotech DNA Fast LT Buffer

99% dichloromethane, 1% ethylene diamine tetra acetic acid

Incorrect Descriptions:

70% methanol in water
2 mmol isopropyl alcohol
80% water, 20% EDTA

Materials that fail to follow these instructions may be rejected for disposal at time of pick-up.

INFOGRAPHIC

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Procedure for chemical wastes

This is a guide to help you determine how to safely dispose of your hazardous waste. If you have questions, contact HSE.

1 What is it?

Chemical wastes can be solid or liquid. They can be left over 'original' chemical, or they can be chemical mixtures made by the lab. Chemical wastes should be segregated as much as possible

Ideal segregation groups: non-halogenated organics, halogenated organics, acids, bases, heavy metals, and aqueous wastes.



2 Liquid Mixtures

1. Collect waste in an HSE **approved container** (request containers through HWIS as 'Other wastes')
2. Keep **records of contents**. The disposal tag can be used to track contents.
3. **Cap/seal** container when not in use and prior to pick-up. For volatile chemicals that may off-gas, use a **venting cap** (available through HSE)
4. **Store** in appropriate location for hazard (flammable cabinet, acid cabinet, etc)



3 Chemical Tag

- Fill out the Chemical Disposal tag. The description **must be**:
 - a. in English with no abbreviations (unless abbreviation is used in Section 1 of the SDS (ie L-DOPA)
 - b. in percent, and
 - c. components should total 100% (listed in descending percentages)
- Prior to pick-up, **ensure**:
 - exterior of container is not contaminated
 - container is sealed/capped
 - waste tag is attached
- Request pick-up through the HWIS as chemical waste

Materials that fail to follow these instructions may be rejected for disposal at time of pick-up

Hazardous Materials Disposal	
Name: <i>Jane Doe</i>	
Supervisor: <i>John Smith</i>	
Waste Type	
<input type="checkbox"/> Non-Halogenated	<input type="checkbox"/> Halogenated
<input checked="" type="checkbox"/> Flammable	<input type="checkbox"/> Flammable
<input type="checkbox"/> Aqueous	<input type="checkbox"/> Aqueous
<input type="checkbox"/> Aqueous with metals	
<input type="checkbox"/> Other:	
Details of Contents (use back side for more space):	
<i>80% acetone</i>	
<i>20% methanol</i>	
Incompatibilities (do NOT put these in the waste containers):	
TDG Classification (HSE use):	

4 Chemicals in original bottles

- Chemicals, solid or liquid, in their **original bottles** (not mixed) do not require a description tag.
- Submit pick-up request using the exact name on the bottle. Include manufacturer and product number in the comment section.



5 What happens after pick-up?

After pick-up, HSE **stores** the chemicals according to hazard class.

- The containers are then picked up and disposed of by our waste contractor
 - to prevent undue harm to HSE and others, you must use the appropriate container for your waste, decontaminate the exterior of the container, and properly list all chemicals within.



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Still have questions?

Contact Health, Safety and Environment



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