

CHEMICAL WASTE

Chemical Waste Disposal Guidelines:

Sink disposal, followed by copious amount of water, is limited to:

- Buffer solution
- Detergents
- Mild acids/bases
- < 10% v/v methanol or ethanol solutions
- Bleach containing solutions (usually 1:10 dilution of stock)
- Any non-hazardous compounds

Chemical waste pick-up:

For chemicals that cannot be disposed through sink disposal or regulated under the Environmental Protection Act O Reg. 347- Schedules 1 and 2, drop off your chemicals in the Biohazard Work room on 5th floor- #545. Waste chemicals are picked up every Wednesday.

Discarding old chemicals-

- Leave the original labels on the chemicals being disposed.
- List the name of the PI/Lab on the container.
- Place the chemicals in provided secondary containers (trays) for storage.

Discarding hazardous waste generated in the Lab-

- Use containers compatible with the waste chemicals: use glass containers for solvent /corrosive wastes to ensure the waste contents will not melt or dissolve the container.
- Close the lids of the waste container securely (screw type lid)- Stoppered bottles or use of paraffin wax to seal containers is not acceptable.
- Use separate containers to collect unique or incompatible waste types.
- Before starting the chemical waste collection, label the waste container- use HAZARDOUS WASTE STICKER PROVIDED in BIOHAZARD ROOM.
- Write the *Full Chemical Name* for each specific chemical component. – “Running buffer”, “Solution B”, “organic solvent” is not acceptable labeling- Check the

appropriate Globally Harmonized System of Classification and check the MSDS sheet.

- Disposing unlabeled waste is expensive! E.g. tubes with an unidentified liquid in a bag or gloves and lab bench guards in a plastic bag. This is not acceptable!!
- Designate a Chemical waste collection area in the lab- this area can be a small section of a chemical hood, bench top, cabinet or any combination, depending on storage requirements.

Leave Waste in Biohazard Room for Pickup Once the Container Is 75% Full.

Stickers are found in the room. Fill out the required information-

HAZARDOUS WASTE
St. Michael's Hospital, #209 Victoria street



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| Contact Name: | Contact No.: |
| Name of Principal Investigator: | |
| Date of collection | |
| Chemical Name(s): | |
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Room 545 also has a **cytotoxic** (consisting of cytotoxic drugs- anti-neoplastic and cancer drugs, medicinal chemicals or waste containing any of these compounds (including tubing, tissues, PPE etc.) waste bin.

Any cytotoxic waste should be put in a '**Red Bag**' and deposited into the cytotoxic bin (Red bin). Once the bin is full, check with **Vivarium** staff to request pickup/disposal.

For any further questions on proper chemical disposal reach out to:

Research Biosafety Officer at neha.chauhan@unityhealth.to
Occupational Hygienist- Corporate Health and Safety Services at Ext. 5227.