B Waste disposal

WASTE CONTAINERS IN THE WASTE HOODS

There are two waste hoods. We will use the one on the right side of the lab. Become familiar with where to dispose of different kinds of waste. All waste buckets must be corked after use.

Green: Non-halogenated waste

Dispose

- Non-halogenated solvents (e.g., hexanes, ethyl acetate, toluene, methanol, ether)
- Non-halogenated reagents

Do not dispose

- Magnesium or other metals
- Halogenated waste
- Water

Red: Halogenated waste

Dispose

- Halogenated solvents (e.g., methylene chloride, chloroform, bromobenzene, etc.)
- Halogenated reagents
- Organic solutions containing halogenated compounds

Do not dispose

- Water
Yellow: Solid waste

Dispose

- Solid reagents, both halogenated and non-halogenated
- Acetone used to rinse solid reagent containers

Do not dispose

- Water

White: Aqueous waste

Dispose

- Aqueous layers contaminated with halogenated or non-halogenated organic compounds (e.g., DMF); neutralize before disposal
- Acetone used to wash glassware; neutralize before disposal

Do not dispose

- Strongly acidic or basic aqueous solutions

DISPOSAL OF WASTE DOWN THE SINK

The following waste materials may be disposed down the sink, but only if they were not used, that is, if you took too much of them. Dilute prior to disposal and run down the sink with plenty of tap water.

- Left-over aqueous solutions used for extraction and washing (e.g., brine, sodium bicarbonate, etc.)
- Left-over inorganic acids (e.g., sulfuric acid, etc.)
- Left-over inorganic bases (e.g., NaOH, etc.)
- Left-over nontoxic solvents (e.g., ethanol, acetic acid)
- Water from washing glassware
- Left-over nontoxic compounds
MISCELLANEOUS DISPOSAL PROCEDURES

Broken glass
Dispose of broken glassware that is deemed unrepairable in the opinion of the TF, empty reagent containers (rinse twice with acetone), pipets, scintillation vials, disposable pipets and melting point glassware in the broken glass containers. Do not place broken glass in the trash.

Magnesium waste
Dispose of magnesium in the magnesium waste container in the hood. Add the magnesium slowly.

Trash
It is acceptable to dispose of paper towels and filter paper laden with MgSO₄ or Na₂SO₄ in the trash. Do not dispose of glass in the trash.