The Safety Unit – Sackler Faculty of Medicine

Chemicals Liquid Storage

Chemicals are classified in groups (list below prepared by Dr. Menachem Genut, TAU Safety Unit). To comply with regulations and keep employees safe, the proper storage of these hazardous ensures a safe environment.

Requirements for chemicals liquid storage at Sackler building:

1. **Flammables**: to store in “Yellow safety cabinets” with trays as secondary containments.

For chemical transport use a basket
2. **Corrosive chemicals**: classified as basic and acid. They can be stored as follows:

2.1. **Labs with chemical hood**: to store in wood cabinets under the chemical hood. Corrosive basic and acid separated in secondary containments. The hood must work 24 hours.

2.2. **Labs WITHOUT chemical hood**: to store in wood ventilated cabinets inside the lab. Corrosive basic and acid separated in secondary containments.

2.3. **Labs WITHOUT chemical hood and without wood ventilated cabinets**:

Corrosive chemicals should be stored in “corrosive blue cabinets” (matching ongoing with Safety Unit). Corrosive basic and acid should be stored in different shelves and separated with trays as a secondary containment.

Chemicals cannot be stored in hallways or in ordinary lab closets. For better safety, and to avoid potential harm, each lab must reduce its liquid chemicals stock, starting with proper disposal of bottles past expiry dates.

Tel Aviv University safety policy is based on Israeli laws ([https://safety.tau.ac.il/Safety-in-chem-lab](https://safety.tau.ac.il/Safety-in-chem-lab)).

Sincerely,

Dr. Debora Rapaport, PhD
Safety Officer – Sackler Faculty of Medicine
Safe storage of liquids commonly used in TAU labs

Group A - Flammable Materials (UN group 3)

The Following Chemicals should be stored in a "Flammable Materials Cabinet".

Only:

- 1-butanol
- Acetone
- Acetonitrile
- Chloroform
- Diethyl ether
- Diethylformamide
- Dimethylformamide
- DMSO
- Eosin
- Ethanol
- Ethyl acetate
- Ethylene glycol
- Formaldehyde
- Formaldehyde
- Formalin
- Hexane
- Isopropanol
- K clear plus
- Methanol
- Phenol
- Toluene
- Xylene

Group B - Corrosive - Alkaline Materials (UN group 8)

Corrosive - Alkaline Materials

- Ammonium Hydroxide
- Diethanolamine

Glacial acetic acid: flammable

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