

Standard Operating Procedure

Flammable Liquids

Hazard Description: Flammable and combustible liquids are those which can ignite when exposed to an ignition source at the flashpoint (lowest temperature at which a material can form an ignitable mixture with air and produce a flame) of the liquid. Flammable liquids are defined as those with a flashpoint less than 100°F, while combustible liquids have a flashpoint greater than 100°F.

Labeling: Labeling must adhere to the requirements outlined in the Chemical Hygiene Plan. Flammable liquids have the following GHS pictogram:



Storage: Storage of flammable liquids must adhere to the requirements outlined in the Chemical Hygiene Plan. Flammable liquids must be stored in flammable liquid storage cabinets or refrigerators and be labeled with the words "Flammable". No more than 10 gallons of flammable liquids may be stored outside of a flammable liquid storage cabinet, at any time in any room. Do not store near ignition sources. Do not store flammable liquids in chemical fume hoods or allow containers of flammable liquids in proximity to heating mantels, hot plates, or torches.

Handling: In addition to the requirements outlined in the Chemical Hygiene Plan the following should be considered when handling flammable liquids:

- Immediately close containers of flammable liquids after use and return to storage cabinet.
- Flammable liquids should be used inside fume hoods.
- Shielding is required any time there is a risk of explosion.
- Remove all flammable and combustible materials from the fume hood or workspace when they are not needed for the immediate task.
- To avoid buildup of static electricity that may cause a spark, bond and ground metal or conductive plastic containers.
- Closed systems outside of the fume hood must be vented to a dedicated exhaust that does not recirculate.

Personal Protective Equipment: When there is a high risk of fire, such as those that use large volumes of highly flammable liquids, open flame, and/or pyrophoric materials, a fire-resistant lab coat and other fire-resistant PPE may be required. Reference SDS.

Spill and Decontamination: Put spill cleanup materials in a flammable waste can Reference SDS.