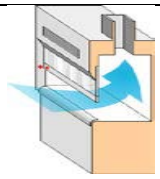
TEMPLE UNIVERSITY
Environmental Health and Radiation Safety

CHEMICAL HAZARD GUIDELINE

FLAMMABLE LIQUIDS

Examples: *Alcohols, Ketones, Xylenes*

Hazards	**Potential Hazards**	• Vapors can produce **fire** and **explosion** if ignited. • Some flammable solvents can affect health. See Toxic & Health Hazard Liquids Guidelines. • See Safety Data Sheet (SDS) for specific hazard information. • *A lab-specific SOP is needed for particularly hazardous chemicals, such as Acrolein or Benzene and/or any operation involving a high-risk chemical. PI approval of lab SOP required for is required for all particularly hazardous chemicals and/or high-risk chemicals.*
Hazard Controls	**Purchasing**	• Purchase the **smallest cylinders** at the **lowest concentration** practical. • Purchase in **shatter-resistant containers** If available (such as the PVC-coated glass).
	Storage and Transportation	• Store **away from oxidizers.** • Refer to SDS for other storage compatibilities. • Flammable liquids more than ten gallons must be stored in an **approved flammable storage cabinet or safety cans.** • Containers with a volume greater than five gallons, must not be stored in a laboratory without prior approval from the Fire Marshal and EHRS. • Flammable liquids stored in glass containers must not exceed one gallon. • Do Not store in a standard refrigerator or cold room. • Flammable liquids may only be stored in **approved explosion proof** or **laboratory safe refrigerators.** • Store below eye level but not on the floor. • Transport in a bottle carrier    
	Work Practice Procedures	• **Flammable liquids must never be heated using open flames.** • When pouring from conductive containers with a capacity of one gallon or greater, both **containers must be bounded and grounded.** • Avoid plastic as they buildup statis electricity. • Close containers of flammable liquids when not in use to prevent vapor escape. • Know the location of the nearest fire extinguisher.
	Engineering Controls	• Flammable liquids must be managed and used inside a properly operating chemical fume hood. 
	Personal Protective Equipment	 **Note:** Always refer to glove manufacturer for chemical specific glove type.
Other	**Waste**	Collect as hazardous waste. For disposal, request waste pick-up through EHRS.
	Emergencies	**In the event of an emergency** – Call campus safety at (215) 214-1234 & EHRS at (215) 707-2520. **Direct contact** – Flush contaminated area with copious amounts of water (eyewash or safety shower) and then seek medical attention. **Spill/ Release** – Refer to the spill management sheet for general spill cleanup. Contact EHRS for additional assistance or guidance. **Fire** – ABC dry powder fire extinguisher should be adequate.
	Training	Sign signature on Laboratory-Specific Training Checklist to indicate review.
	Questions	Contact Environmental Health and Radiation Safety (EHRS) at (215) 707-2520