



SMU EHS Standard Operating Procedure for use of

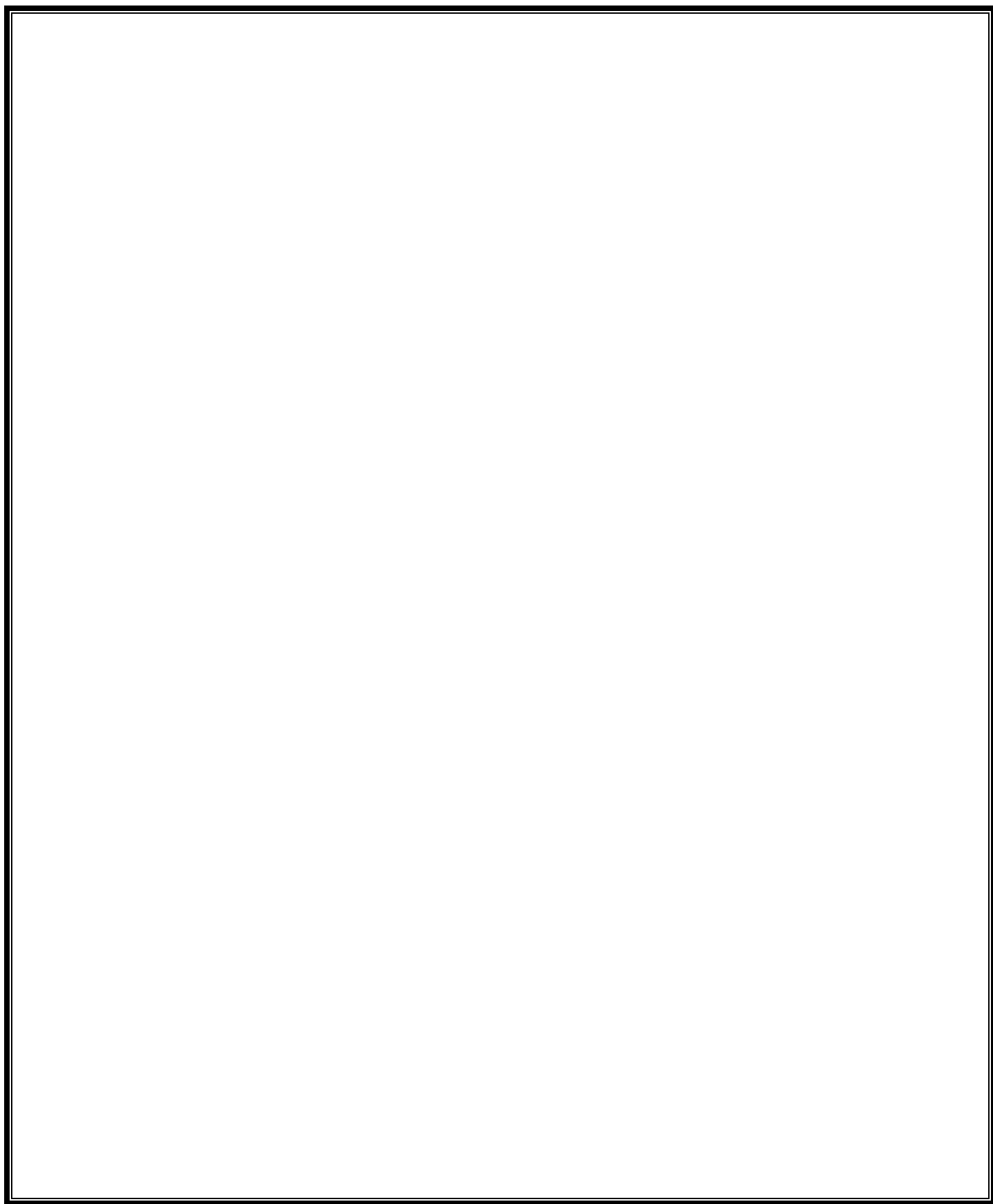
FLAMMABLE LIQUIDS

Examples: ethanol, isopropanol, methanol, acetone,
n-hexane, pentane



HAZARDS	Potential Hazards	<ul style="list-style-type: none"> • Vapors can produce fire and explosion if ignited • Some flammable solvents can affect health. See toxic chemicals guidelines. • See Safety Data Sheet (SDS) for specific hazard information. 			
	HAZARD CONTROLS				
HAZARD CONTROLS	Selection and Purchase	<ul style="list-style-type: none"> • Purchase the smallest containers at the lowest concentration practical. • Purchase in shatter-resistant containers if available. 			
	Storage and Transportation	<ul style="list-style-type: none"> • Store away from oxidizers; see SDS for other storage incompatibilities. • Store in a flammables cabinet if possible; no more than 10 gallons outside of approved flammable storage cabinets. • Do not store in a standard refrigerator or cold room. • Store below eye level but not on the floor. • Transport in a bottle carrier. 			
	Engineering Controls	<ul style="list-style-type: none"> • Work in a chemical fume hood if: <ul style="list-style-type: none"> ○ The chemical is irritating to the eyes or respiratory system, or hazardous by inhalation. ○ Air concentrations could reach or exceed 10% of the Lower Flammable Limit. 			
	Work Practice Controls	<ul style="list-style-type: none"> • Know the location of the nearest fire extinguisher. • Use the smallest practical quantities for the work being performed. • Avoid using near sources of ignition or static electricity. • Ensure proper grounding. Be sure to ground metal containers when transferring flammable liquids. • Close containers when not in use to prevent vapor escape. 			
	Personal Protective Equipment (PPE)	<table border="0"> <tr> <td>Minimum PPE:</td> <td>Risk of splash or large amounts, add:</td> </tr> <tr> <td> <ul style="list-style-type: none"> • Fastened lab coat • Safety glasses • Appropriate gloves </td> <td> <ul style="list-style-type: none"> • Chemical splash goggles and face shield • Flame-resistant lab coat • Avoid wearing flammable clothing. </td> </tr> </table> <p><i>Consult the manufacturer's glove guide for effectiveness with the chemical.</i></p>	Minimum PPE:	Risk of splash or large amounts, add:	<ul style="list-style-type: none"> • Fastened lab coat • Safety glasses • Appropriate gloves
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OTHER	Waste	Collect and store according to SMU Hazardous Waste guidelines.			
	Training	Sign Laboratory Specific Training document to indicate understanding of this SOP.			
	Questions	Contact Environmental Health and Safety at 214-768-2430.			
	Additional Guidelines	Please complete page 2 for additional laboratory-specific guidelines			

Laboratory-specific chemicals and procedures:

A large, empty rectangular box with a black border, occupying most of the page below the text. It is intended for the user to list laboratory-specific chemicals and procedures.