



SMU EHS Standard Operating Procedure for use of

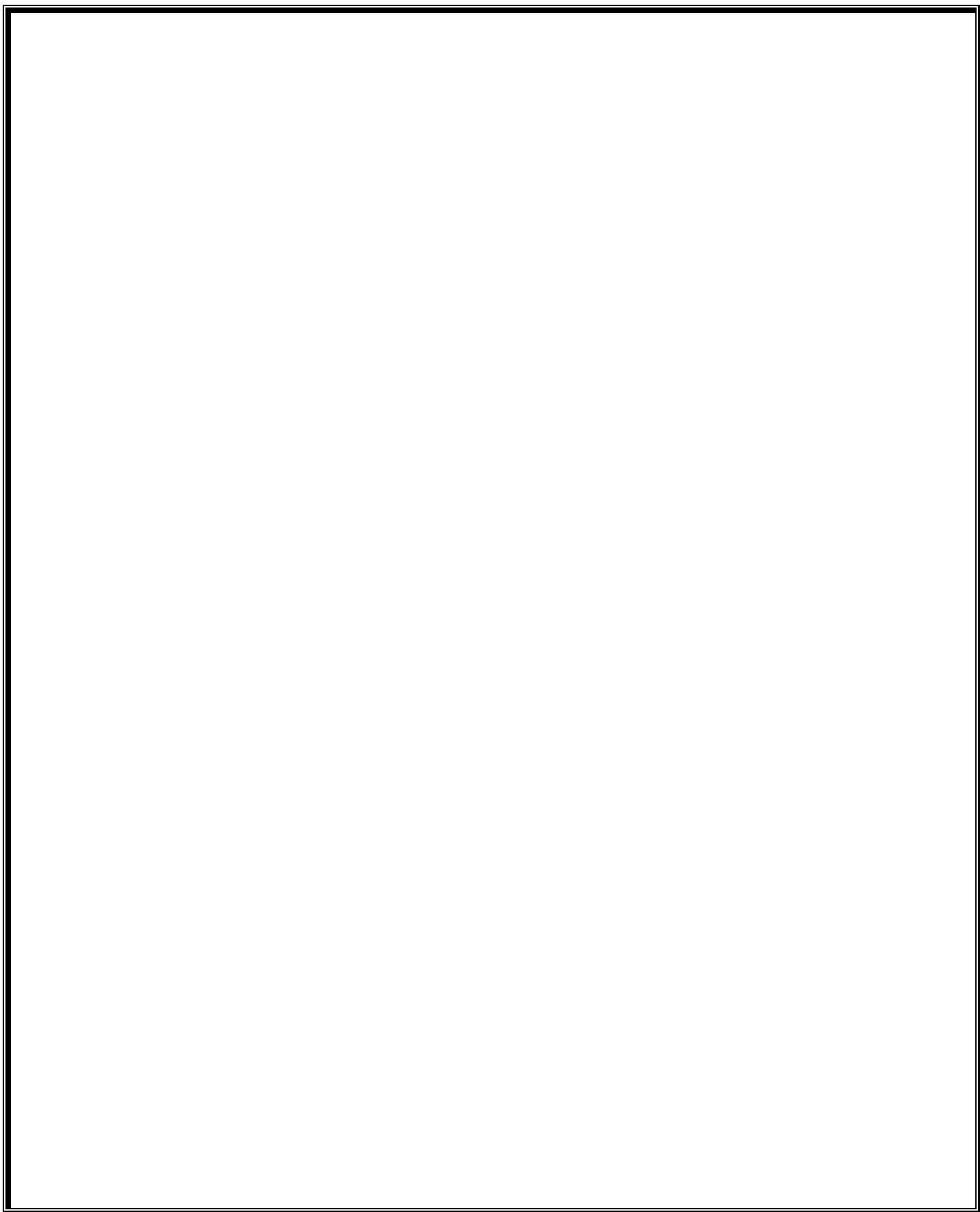
CORROSIVES



Examples: hydrochloric, phosphoric, formic, and acetic acids;
sodium and potassium hydroxides

HAZARDS	Potential Hazards	<ul style="list-style-type: none"> • Destroy tissues at site of contact (skin, eyes, or respiratory tract). • Corrode metals. • May produce hazardous/toxic gases. • 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 in well-ventilated areas with secondary containment (such as non-reactive bin) • Store below eye level but not on the floor. • Store away from metal. • Do not store under the sink. • Store away from incompatibles: <ul style="list-style-type: none"> ○ Organic acids away from inorganic acids ○ Acids away from bases ○ See SDS for specific compatibility information • Transport corrosives in a bottle carrier.
	Engineering Controls	<ul style="list-style-type: none"> • Eyewash and safety shower required in immediate work area. • Work in a chemical fume hood.
	Work Practice Controls	<ul style="list-style-type: none"> • When diluting acids, add acid to water slowly, in small amounts. • Plan work to avoid contact with gloves. Change gloves immediately if contaminated. • Maintain a local spill kit.
	Personal Protective Equipment (PPE)	<p>Minimum PPE:</p> <ul style="list-style-type: none"> • Fastened lab coat • Safety goggles • 2 pairs of appropriate gloves <p>Risk of splash or large amounts, add:</p> <ul style="list-style-type: none"> • Face shield • Impervious apron and sleeves OR coverall • Thicker chemical-resistant gloves (worn over nitrile gloves) <p>Consult the manufacturer's glove guide for effectiveness with the chemical.</p>
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.