














CHEMICAL HAZARD GUIDELINE

 <h2 style="margin: 0;">CORROSIVES</h2> <p style="margin: 0;">Examples: Ex: Strong Acids (Hydrochloric, Sulfuric) – Strong Bases (Sodium Hydroxide, Potassium Hydroxide) – Gases (Ammonia)</p>		
Hazards	Potential Hazards	<ul style="list-style-type: none"> Destroys tissue at site of contact (skin, eyes, or respiratory tract). Corrodes, rusts, and degrades steel. Corrosive gases (e.g.-Ammonia) can burn and destroy human body tissue. See Safety Data Sheet (SDS) for specific hazard information. <i>A lab-specific SOP is needed for corrosives that are particularly hazardous chemicals, such as sulfuric, nitric, or perchloric acids; aqua regia, piranha, or phenol 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.</i> <div style="text-align: right;">  <p>Standard Operating Procedure</p> <p>Laboratory Requirements for Chemical SOP(s)</p> </div>
	Purchasing	<ul style="list-style-type: none"> Purchase the smallest containers at the lowest concentration practical. Purchase in shatter-resistant containers if available (such as plastic or PVC-coated glass).
Hazard Controls	Storage and Transportation	<ul style="list-style-type: none"> Store in well-ventilated areas with secondary containment (such as non-reactive bin). Store large quantities of corrosive chemicals in specially designated corrosion resistant cabinets (e.g. acid storage cabinets). 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"> Oxidizing acids away from organic acids. Acids away from bases. Refer to SDS for other storage compatibilities. Transport corrosives in a bottle carrier. <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
	Work Practice Procedures	<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. <div style="text-align: right;">  </div>
	Engineering Controls	<ul style="list-style-type: none"> Eyewash required in immediate work area. <ul style="list-style-type: none"> Eyewash-drench hose preferred. Work in a chemical fume hood with volatile or powdered corrosives, or if there is any potential for inhalation exposure. <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
	Personal Protective Equipment	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  EYE PROTECTION </div> <div style="text-align: center;">  FACE SHIELD </div> <div style="text-align: center;">  CHEMICAL GLOVES </div> <div style="text-align: center;">  LAB COAT </div> <div style="text-align: center;">  LONG PANTS </div> <div style="border: 1px solid black; padding: 2px; font-size: small;"> CLOSED TOED SHOES ARE REQUIRED </div> </div> <p>Note: Always refer to glove manufacturer for chemical specific glove type.</p>
Other	Waste	Collect as hazardous waste. For disposal, request waste pick-up through EHRS.
	Emergencies	<p>In the event of an emergency – Call campus safety at (215) 214-1234 & EHRS at (215) 707-2520.</p> <p>Direct contact – Flush contaminated area with copious amounts of water (eyewash or safety shower) and then seek medical attention.</p> <p>Spill/ Release – Refer to the spill management sheet for general spill cleanup. Contact EHRS for additional assistance or guidance.</p> <p>Fire – ABC dry powder fire extinguisher should be adequate.</p>
	Training	Sign signature on Laboratory-Specific Training Checklist to indicate review.
	Questions	Contact Environmental Health and Radiation Safety (EHRS) at (215) 707-2520