

The University of Texas at Tyler LABORATORY RISK ASSESSMENT TEMPLATE

Standard Operating Procedures for Hazardous Chemicals

Lab Location:	Date:			
Title of Procedure:				
Principal Investigator:				
RISK ASSESSMENT				
Hazardous Chemicals (List chemicals used: include chemical name, common name and abbreviation.)				
<u>Potential Hazard(s)</u> (Describe the potential haz Examples include:	zards associated with the chemicals or the procedure.)			
Chemical hazards such as carcinogenic, irri	tant, corrosive, acutely toxic			
2) Reproductive hazards such as teratogens a				
Allergies or chemical sensitivities that may be				
Physical hazards such as reactive, pyropho.	ric, exothermic, use of high energy equipment			
Pulos of Exposuro (As applicable, describe the	a notantial routes of expensive appoints with the procedures			
such as inhalation, absorption, skin/eye contact)	e potential routes of exposure associate with the procedures			
Exposure Limit: (As applicable, list the Permiss chemical(s), if known)	sible Exposure Limit (PEL) or Threshold Limit Value (TLV) of the			

Quality/Concentration Hazards (As applicable, describe if the quantity/concentration of the chemical(s) used increase the risk of exposure to the chemical.)				
colution of Less Hazardous Chemicals (As applicable, describe the potential use of less hazardous themical substitutes.)				
	CONTROL MEASURES			
	eering Controls (As applicable, describe the engineering controls used for the procedure.)			
	amples:			
1) 2)	Use of fume hoods or glove boxes Special ventilation			
2) 3)	HEPA filtered vacuum lines			
<i>4)</i>	Non-reactive containers			
<i>5</i>)	Temperaturecontrol			
<i>6</i>)	Bench paper, pads, chuks, plastic-backed paper			
7)	Special signage			
8)	Safe sharp devices			
9)	Other safety devices			
	Practice Controls (As applicable, describe work practice controls used for the procedure.)			
	amples:			
1)	Designated areas (for highly toxic chemicals)			
2) 3)	Performing procedures with a least two people present Rotating workers			
3) 4)	Restricting access; locks			
5)	Housekeeping			
	- Troubbrooping			

	Personal Protective Equipment (PPE) (List all applicable personal protective equipment needed for the			
proced				
	r example, describe use of:			
1) 2)	Gloves (type) Lab coats, suits, aprons			
3)	Safety glasses, goggles, face shields			
<i>4</i>)	Respirators, hearing protection			
5)	Special equipment (such as blast shields)			
6)	Other PPE			
	toring (As applicable, describe any monitoring needed for the procedure.)			
	amples:			
1)	Personnel exposure monitoring			
2)	Gas/spill release monitoring			
	n Animals (As applicable, describe how the chemical will be safely used in animals.)			
	ramples:			
1)	Dosing administration			
2)	Animal restraining			
3)	Information on shedding/excretion of chemical			
<i>4)</i>	Aerosol suppression practices			
<i>5)</i>	Handling animals Special ages bandling (weeking instructions			
6)	Special cage handling/washing instructions			
Clear	Nun/Decenteringtion Procedures (December the uncertainty the south and design and often			
	nup/Decontamination Procedures (Describe the process for cleaning the work are during and after			
tne pro	cedure.)			

_		
nsportation Procedures (If the chemical will be transported on campus, describe the procedure.)		
. 5.		
	sposal Procedures (Describe how waste will be disposed.)	
Examp≀ 1)	ies: Animals: include bedding, cages, and carcasses	
,	Chemicals	
•	Radioactive	
4)	Sharps	
<u>rgen</u>	cy Procedures (Describe procedures to be followed in the event of an emergency.)	
Sp	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill o	
Sp	ICY Procedures (Describe procedures to be followed in the event of an emergency.) ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of a release. Include location of spill kits.)	
Sp	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill o	
Sp	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of	
Sp	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of	
Sp	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill o	
Sp gas	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of release. Include location of spill kits.)	
Sp gas	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of	
Sp gas	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of serelease. Include location of spill kits.)	
Sp gas	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of serelease. Include location of spill kits.)	
Sp gas	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of serelease. Include location of spill kits.)	
Sp gas	ills or Releases: (Provide specific instruction on what personnel should do in the event of a spill of serelease. Include location of spill kits.)	

Emergency Shut Offs: (Describe procedures for shutting down equipment in an emergency.)
Signs and Symptoms of Exposure: (Describe the specific signs and symptoms of an exposure to the chemical(s), such as visual cues or odors.)
Exposures: (Provide specific instructions on what to do in the event of an exposure.)
<u>First Aid:</u> (If first aid for an exposure is available, describe the procedure. If not, describe what steps personnel should take if injured.)
Occupational Health Requirements (Describe and Occupational Health requirements necessary that are associated with the procedure.)
Examples include medical evaluation, baseline serum samples, and respiratory fit testing.
Safety Data Sheet (SDS) (Describe how personnel will access the SDS in the lab and include a copy of the SDS with this SOP.)

Training Requirements (Describe what training personnel must complete before using the				
chemical/procedure. This training should be documented.)				
Review of Procedure (Describe the frequency for reviewing the SOP document.)				
<u>PROTOCOL</u>				
(Description of how to safely perform the experiment				