ARKANSAS STATE UNIVERSITY EHS LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE

Chemical Name:	Toluene		CAS #:	108-88-3	
Hazard Classification:	Health Hazard]		
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Location Used:		Principal Inv	estigator:		
Processes for Which Chemical I	s Used:				
HAZARDS AND PROTEC	TION				
•	le wallowed and enters airways ness or drowsiness	<u> </u>			
Routes of Exposure Ingestion Inhalation Eye absorption		If exposed by: Inhalation: Remove to fresh air. If not breathing give artificial respiration. Ingestion: Rinse mouth with water and then drink plenty of water; do not induce vomiting. Eye or skin: Rinse affected area for 15 minutes If exposed by inhalation, ingestion or eye contact seek medical attention. For other routes, seek medical attention if necessary.			
Exposure Limits All exposure limits are Time Weighted Averages (average exposure over an eight-hour day).		OSHA PEL: 200 ppm (750 mg/m³) ACGIH TLV: 20 ppm (75 mg/m³) NIOSH REL: 100 ppm (375 mg/m³), 500 ppm (1775 mg/m³) IDLH			
Engineering Controls • Chemical Fume Hood		Never open toluene outside of a chemical fume hood.			
Administrative Controls		 Post designated area sign before each use. Label containers of toluene as a health hazard. 			

• Use as small a quantity as possible.

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Personal Protective Equipment		
GlovesSafety glasses or splash gogglesLab coat	Two pairs of nitrile gloves for short-term use. If longer term use, PVA or laminate film gloves are required. Change gloves immediately if a spill on gloves is observed. Wash hands after use.	

OTHER SAFETY INFORMATION

Transportation	Follow guidance given in the laboratory safety manual	
Storage Store in a flammables materials storage cabinet. Keep away from heat or sources of ignition Keep tightly sealed	for transport of chemicals. Incompatible materials include: Acids, bases, strong oxidizing agents, halogenated compounds.	
Spill/Accident Procedures For all spills:	Small spills (less than 500 mL): Cover the spill with absorbent materials. Place absorbent materials in bag or bucket for collection by EHS. Clean area with soap and water once spill is removed. Large spills (greater than 500 mL): If the spill is in a chemical fume hood, contact the EHS director (864-710-2933). If he cannot be reached (does not answer phone, do not leave voicemail), then call 911, pull the fire alarm and exit the building. If the spill is outside of a hood, then call 911, pull the fire alarm and exit the building.	
Waste Disposal	Waste toluene must be collected for disposal. Empty bottles of toluene may be rinsed and thrown in the dumpster.	

By signing below, you indicate that you have reviewed this SOP and understand the contents thereof:

Printed Name	Signature	Date