## ARKANSAS STATE UNIVERSITY EHS LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE

Chemical Name:	Chloroform	CAS #:	67-66-3	
Hazard Classification:	Health Hazard			
Location Used:		Principal Investigator:		
Processes for Which Chemical I	s Used:			
HAZARDS AND PROTEC	TION			
<ul> <li>Hazard Information</li> <li>Carcinogen</li> <li>Reproductive To</li> <li>Liver and Kidney</li> </ul>	•			
Routes of Exposure  Ingestion Inhalation Eye absorption		If exposed by:  Inhalation: Remove to fresh air  Ingestion: Aspiration hazard if vomiting occurs. Do not induce vomiting.  Eye or skin: Rinse affected area for 15		
Symptoms of Exposure  Cough, shortness of breath, dizziness, agitation, inebriation, nausea, vomiting Headache, drying out of skin			ation, ingestion or eye contact, seek For other routes, seek medical ry.	
Exposure Limits  All exposure limits are Time Weighted Averages (average exposure over an eight-hour day) unless otherwise indicated.		ACGIH TLV: 10 ppm	OSHA PEL: 50 ppm (240 mg/m³) ceiling ACGIH TLV: 10 ppm (48 mg/m³) NIOSH REL: 2 ppm (9.5 mg/m³)	
Engineering Controls  • Chemical Fume Hood		Never open chloroform outside of a chemical fume hood.		
Administrative Controls		<ul> <li>Label contains</li> <li>hazard.</li> </ul>	nated area sign before each use. ainers of chloroform as a health all a quantity as possible.	

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# Gloves Safety glasses or splash goggles Lab coat Two pairs of nitrile gloves for short-term use. If longer term use, polyvinyl alcohol (PVA) or laminate 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	
	for transport of chemicals.	
Storage	Incompatible materials include:	
<ul> <li>Can be stored with flammable materials (except acetone).</li> <li>Keep tightly sealed</li> </ul>	Acetone, strong bases, alkali metals, fluorine, dinitrogen tetroxide, potassium t-butoxide, powdered aluminum, nitrogen tetroxide, powdered magnesium, disilane, sodium methylate, triisopropylphosphine.	
Spill/Accident Procedures	Small spills (less than 500 mL in a hood or 20 mL	
For all spills:  • Wear two pairs of nitrile gloves • Evacuate the immediate area Exposure:	outside a fume hood): 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.	
<ul> <li>If anyone exposed requires emergency medical attention, dial 911 (or 9-911 from landline).</li> <li>Follow procedures outlined in laboratory safety manual.</li> </ul>	Large spills (greater than 500 mL in a hood or 20 mL outside a fume hood): 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 chloroform must be collected for disposal.	
	Empty bottles of chloroform 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	

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