# ARKANSAS STATE UNIVERSITY EHS LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE

Chemical Name:	Dichloromethane (methylene	CAS #:	75-09-2
	chloride)		
Hazard Classification:	Health Hazard		

Location Used:	Principal Investigator:		
Processes for Which Chemical Is Used:			

HAZARDS AND PROTECTION				
<ul> <li>Hazard Information</li> <li>Carcinogen</li> <li>Reproductive Toxicity</li> <li>Liver and Kidney Toxicity</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 minutes			
<ul> <li>Symptoms of Exposure</li> <li>Cough, shortness of breath, dizziness, agitation, inebriation, nausea, vomiting</li> <li>Headache, drying out of skin</li> </ul>	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) unless otherwise indicated.	OSHA PEL: 25 ppm (87 mg/m³) ACGIH TLV: 50 ppm (174 mg/m³)			
Engineering Controls  ● Chemical Fume Hood	Never open dichloromethane outside of a chemical fume hood.			
Administrative Controls	<ul> <li>Post designated area sign before each use.</li> <li>Label containers of dichloromethane as a health hazard.</li> <li>Use as small a quantity as possible.</li> </ul>			

# ARKANSAS STATE UNIVERSITY EHS LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE

Personal Protective Equipment		
<ul><li>Gloves</li><li>Safety glasses or splash goggles</li><li>Lab coat</li></ul>	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:  Strong oxidizing agents, strong acids, amines  Small spills (less than 500 mL in a hood or 20 mL	
For all spills:	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.  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 dichloromethane must be collected for disposal.  Empty bottles of dichloromethane 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