## ARKANSAS STATE UNIVERSITY EHS LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE

Chemical Name:	Trichloroethylene	CAS #:	79-01-6	
Hazard Classification:	Health Hazard			
Location Used:		Principal Investigator:		
Processes for Which Chemical	ls Used:			
HAZARDS AND PROTEC	TION			
<ul> <li>Hazard Information</li> <li>Carcinogen</li> <li>Reproductive Toxicity</li> <li>Liver and Kidney Toxicity</li> </ul>				
Routes of Exposure     Ingestion		If exposed by:  Inhalation: Remove to fresh air Ingestion: 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: 100 ppm (537 mg/m³), 200 ppm (1.07 g/m³) ceiling ACGIH TLV: 10 ppm (53.7 mg/m³) NIOSH REL: 1000 ppm (5.37 g/m³) IDLH		
<ul><li>Engineering Controls</li><li>Chemical Fume Hood</li></ul>		Never open trichloroethylene outside of a chemical fume hood.		
Administrative Controls      Designated area sign     Particularly hazardous substance label		Label contai     health hazai	ated area sign before each use. ners of trichloroethylene as a rd. a quantity as possible.	

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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  Storage	Follow guidance given in the laboratory safety manual for transport of chemicals.  Incompatible materials include:  Strong oxidizing agent, strong bases, amines, alkali metals, metal powders
For all spills:	Small spills (less than 500 mL in a hood or 50 mL 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 50 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 trichloroethylene must be collected for disposal.  Empty bottles of trichloroethylene 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