Toluene SOP

Chemical Name: CAS #:
Hazard Classification:
Location Used: Principal Investigator:
Processes for Which Chemical Is Used:
HAZARDS AND PROTECTION
Hazard Information
• Highly flammable
• May be fatal if swallowed and enters airways
• May cause dizziness or drowsiness
Routes of Exposure
• Ingestion ● Skin Absorption
• 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
• Designated area sign
• Particularly hazardous substance label
• Post designated area sign before each use.
• Label containers of toluene as a health

hazard.
• Use as small a quantity as possible.
Toluene 108-88-3
Health Hazard
ARKANSAS STATE UNIVERSITY EHS
LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE
CS-011 Last Reviewed July 8, 2019
Personal Protective Equipment
• Gloves
• Safety glasses or splash goggles
• Lab 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 for transport of chemicals.
Storage
• Store in a flammables materials storage cabinet.
• Keep away from heat or sources of ignition
• Keep tightly sealed
Incompatible materials include:
Acids, bases, strong oxidizing agents, halogenated compounds.
Spill/Accident Procedures
For all spills:
• Wear two pairs of nitrile gloves
• Turn off sources of ignition (if safe)
• Evacuate the immediate area
Exposure:
• If anyone exposed requires emergency medical attention, dial 911 (or 9-911 from landline).
• Follow procedures outlined in laboratory safety manual.
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:

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