Acetonitrile SOP

Chemical Name: CAS #:
Hazard Classification:
Location Used: Principal Investigator:
Processes for Which Chemical Is Used:
HAZARDS AND PROTECTION
Hazard Information
• Highly flammable
• High chronic toxicity
Routes of Exposure
• Ingestion ● Skin Absorption
• Inhalation
• Eye absorption
If exposed by:
• Inhalation: Remove to fresh air
• Ingestion: treat as cyanide poisoning, do not induce vomiting
• Eye or skin: Rinse affected area for 15 minutes
If exposed by inhalation or ingestion 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: 40 ppm (70 mg/m3
)
ACGIH TLV: 20 ppm (34 mg/m3
)
NIOSH REL: 20 ppm (34 mg/m3
)
Engineering Controls
• Chemical Fume Hood Never open acetonitrile 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 acetonitrile as a health hazard.
• Use as small a quantity as possible.
Acetonitrile 75-05-8
Health Hazard

ARKANSAS STATE UNIVERSITY EHS
LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE
CS-001 Last Reviewed August 7, 2018
Personal Protective Equipment
• Gloves
• Safety glasses or splash goggles
• Lab coat
Two pairs of nitrile gloves for short-term use. If longer term use, neoprene or rubber 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, oxidizing agents, reducing agents and alkali metals
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 acetonitrile must be collected for disposal. Empty bottles of acetonitrile 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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