

1-chloro-1-methylpropene

ARKANSAS STATE UNIVERSITY EHS

LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE

CS-016 Last Reviewed January 6, 2020

Chemical Name: CAS #:

Hazard Classification:

Location Used: Principal Investigator:

Processes for Which Chemical Is Used:

HAZARDS AND PROTECTION

Hazard Information

- Highly flammable
- Toxic in contact with skin
- Fatal if inhaled
- May cause cancer
- Causes irritation to eyes, skin and respiratory tract

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; do not induce vomiting.
- Eyes: Rinse affected area for 15 minutes
- Skin: Wash with soap and water. Take victim to hospital immediately.

If exposed any route seek medical attention.

Exposure Limits

All exposure limits are Time Weighted Averages (average exposure over an eight-hour day).

There are no published exposure limits for this chemical. Limit exposure as much as practical.

Engineering Controls

- Chemical Fume Hood Never open 1-chloro-2-methylpropene 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 1-chloro-2-

methylpropene as a health hazard.

- Use as small a quantity as possible.

1-chloro-2-methylpropene 513-37-1

Health and Physical Hazard

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Personal Protective Equipment

- Gloves
- Safety glasses or splash goggles
- Lab coat

Two pairs of nitrile gloves for short-term use. If longer term use, Viton (fluorinated 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:

Strong bases, strong oxidizing agents

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 50 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 50 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 1-chloro-2-methylpropene must be collected for disposal.

Empty bottles of 1-chloro-2-methylpropene 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

Revision #1

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