

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 496.50

Revision Date: March 14, 2001

Section 1 — Chemical Product and Company Identification

Mercaptoethanol

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Mercaptoethanol

Synonym: thioglycol

CAS#: 60-24-2

Section 3 — Hazards Identification

Water-white liquid with strong disagreeable odor.

Highly toxic. May be fatal if ingested, inhaled, or absorbed through skin. Severe irritant.

Avoid all body contact.

FLINN AT-A-GLANCE

Health-3

Flammability-1

Reactivity-2

Exposure-3

Storage-3

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Combustible liquid.

Flash Point: 165 F

When heated to decomposition, emits toxic fumes of SO_x.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-2

F-2

R-2

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and water and ventilate the area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.

Store in a cool dry place. Use and dispense in a hood. Store in a poisons cabinet.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

Section 9 — Physical and Chemical Properties

Water-white liquid with strong disagreeable odor.
Solubility: Soluble in water, alcohol, ether and benzene.
Formula: HSCH₂CH₂OH
Formula Weight: 78.14

Boiling Point: 157 C (dec.)

Section 10 — Stability and Reactivity

Avoid contact with oxidizing agents, moisture.
When heated to decomposition, emits toxic fumes of SO_x.

Section 11 — Toxicological Information

Acute effects: Highly toxic, severe irritant.
Chronic effects: Central nervous system stimulation
Target organs: N.A.

ORL-RAT LD50: 244 mg/kg
IHL-MUS LC50: 13200 mg/m³
SKN-RBT LD50: 150 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.
Flinn Suggested Disposal Method 18b is one option.

Section 14 — Transport Information

Shipping Name: Thioglycol
Hazard Class: 6.1, Poison
UN Number: UN2966

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (200-464-6).

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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