

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 496.50

Revision Date: April 28, 2011

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

Clear, colorless liquid. 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 and 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 or External: Immediately flush with fresh water for at least 15 minutes.

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

SECTION 5 — FIRE FIGHTING MEASURES

Combustible liquid.

Flash point: 72 °C When heated to decomposition, emits toxic fumes of SO_x.

Fire Fighting Instructions: Use a 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 the area. Remove all ignition sources and water and ventilate the area. Sweep up the spill, place in a 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 a chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Water-white liquid with strong disagreeable odor.

Boiling point: 157 °C (decomposes)

Solubility: Soluble in water, alcohol, ether, and benzene.

Formula: HSCH₂CH₂OH

Formula weight: 78.14

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizing agents and moisture.

When heated to decomposition, emits toxic fumes of SO_x.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, severe irritant.

ORL-RAT LD₅₀: 244 mg/kg

Chronic effects: Central nervous system stimulation

IHL-MUS LC₅₀: 13200 mg/m³

Target organs: N.A.

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 review all federal, state and local regulations that may apply, before proceeding.

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

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**