

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 496.50

Revision Date: November 15, 2010

### 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, 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<sub>x</sub>.

**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.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Water-white liquid with strong disagreeable odor.  
Solubility: Soluble in water, alcohol, ether and benzene.  
Formula: HSCH<sub>2</sub>CH<sub>2</sub>OH  
Formula Weight: 78.14

Boiling Point: 157°C (decomposes)

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with oxidizing agents, moisture.  
When heated to decomposition, emits toxic fumes of SO<sub>x</sub>.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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

ORL-RAT LD<sub>50</sub>: 244 mg/kg  
IHL-MUS LC<sub>50</sub>: 13200 mg/m<sup>3</sup>  
SKN-RBT LD<sub>50</sub>: 150 mg/kg

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Thioglycol  
Hazard Class: 6.1, Poison  
UN Number: UN2966  
N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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

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**SECTION 16 — OTHER INFORMATION**

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