

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 330.00

Revision Date: March 14, 2001

Section 1 — Chemical Product and Company Identification

Ethylene Glycol

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

Ethylene Glycol

Synonym: 1,2 ethanediol

CAS#: 107-21-1

Section 3 — Hazards Identification

Colorless, viscous, liquid. Sweet, antifreeze-like odor.

Moderately toxic by ingestion and skin absorption. Skin, eye, and mucous membrane irritant. Avoid all body tissue contact. Avoid inhaling toxic fumes.

Combustible.

FLINN AT-A-GLANCE

Health-2

Flammability-1

Reactivity-1

Exposure-2

Storage-1

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: Induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Combustible liquid.

When heated to decomposition, emits acrid smoke and irritating fumes.

Flash Point: 232 F Upper: 15.3% Lower: 3.2% Autoignition Temperature: 752 F

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-1

F-1

R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. 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. Deliquescent, store in Flinn Chem-Saf Bag. Use and dispense in a hood.

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

Colorless, viscous liquid.
Sweet, antifreeze-like odor.
Solubility: Water soluble.
Formula: HOCH₂CH₂OH
Formula Weight: 62.08

Specific Gravity: 1.1153
Melting Point: -13 C
Boiling Point: 196-198 C

Section 10 — Stability and Reactivity

Avoid contact with strong oxidizers, strong bases, heat, open flame or any source of ignition.
Shelf life: Fair. Substance is hygroscopic.

Section 11 — Toxicological Information

Acute effects: Toxic, irritant, nausea, headache and vomiting
Chronic effects: Reproductive hazard
Target organs: Liver, kidneys, central nervous system

ORL-RAT LD50: 4700 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: 9530 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: Not regulated
Hazard Class: N/A
UN Number: N/A

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (203-473-3).

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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Improve Safety--Use Flinn Chemicals

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