

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ethylene Glycol

Signal Word  
**WARNING**

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

Chemtrec Emergency Phone Number: (800) 424-9762

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302).



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ethylene glycol	107-21-1	HOCH <sub>2</sub> CH <sub>2</sub> OH	62.07	
Synonyms: 1,2 Ethanediol				

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Call a POISON CENTER or physician if you feel unwell (P304+P312).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313).

**If on skin:** Wash with plenty of water.

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Class IIIB combustible liquid.

NFPA Code

Flash point: 111 °C Flammable limits: Lower: 3.2% Upper: 15.3% Autoignition Temperature: 398 °C

H-1

F-1

When heated to decomposition, may emit toxic fumes.

R-0

In case of fire: Use a tri-class dry chemical fire extinguisher.

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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

Hygroscopic. Store in a Flinn Chem-Saf™ bag.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

Exposure Guidelines: Ceiling (as aerosol) 100 mg/m<sup>3</sup> (ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Viscous, colorless liquid. Sweet antifreeze-like odor.	Boiling point: 197 °C
Soluble: Water, alcohol, and acetone	Melting point: -13 °C
Vapor pressure: 0.06 mm Hg	Refractive index: 1.4318
Vapor density: 2.1	Specific gravity: 1.1135

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong oxidizers, strong bases, heat, open flame, or any source of ignition.

Shelf life: Fair, hygroscopic. See Section 7 for further information.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Route of entry: inhalation, ingestion, skin and eye contact	ORL-CAT LD <sub>50</sub> : 1650 mg/kg IHL-RAT LC <sub>50</sub> : N.A.
Acute effects: Toxic, irritant, nausea, headache, vomiting.	SKN-RBT LD <sub>50</sub> : 9530 mg/kg
Chronic effects: Reproductive hazard.	
Target organs: Liver, kidneys, central nervous system.	

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

Flinn Suggested Disposal Method #18b is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Ethylene glycol Hazard class: 9. UN number: UN3082. Packing group III

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**SECTION 15 — REGULATORY INFORMATION**

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

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**SECTION 16 — OTHER INFORMATION**

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EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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

N/A = Not applicable

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

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