

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 330.00

Revision Date: July 15, 2015

### 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

Signal Word **WARNING**

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          |               |
| Synonym: 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:** 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.

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

When heated to decomposition, may emit toxic fumes.

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

NFPA CODE

H-1

F-1

R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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 |
| Acute effects: Toxic, irritant, nausea, headache, vomiting. | IHL-RAT LC <sub>50</sub> : N.A.       |
| Chronic effects: Reproductive hazard.                       | SKN-RBT LD <sub>50</sub> : 9530 mg/kg |
| Target organs: Liver, kidneys, central nervous system.      |                                       |

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 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

N/A = Not applicable

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

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