



SDS #: 659

Revision Date: April 1, 2015

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## 1,2-Propanediol Safety Data Sheet (SDS)

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## 1,2-Propanediol

Signal Word  
WARNING

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

Chemtrec Emergency Phone Number: (800) 424-10197

Pictograms

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin corrosion or irritation (Category 3). Causes mild skin irritation (H316).

Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).

## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
1,2-Propanediol	57-55-6	CH <sub>3</sub> CHOHCH <sub>2</sub> OH	76.1	
Synonyms: 1,2-Propylene glycol; Propylene glycol				

## SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 skin irritation occurs: Get medical advice or attention (P332+P313).

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: 99 °C Flammable limits: Lower: 2.6% Upper: 12.5% Autoignition Temperature:  
371 °C

NFPA Code

H-0

F-1

R-0

When heated to decomposition, may emit toxic fumes.

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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Contain spill with sand or absorbent material; deposit in 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. Keep container tightly closed. Store in Flinn Chem-Saf™ bag. Store in a cool dry place.

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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Colorless viscous liquid. Odorless.

Soluble: Miscible with water and many organic solvents.

Boiling point: 187 °C

Melting point: -60 °C

Specific gravity: 1.0361

Vapor pressure: 0.08 mmHg

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## SECTION 10 — STABILITY AND REACTIVITY

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Avoid contact with acid chlorides, acid anhydrides, oxidizers, chloroformates, reducers, and any source of ignition. Shelf life: Fair to poor, hygroscopic. See Section 7 for further information.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Acute effects: G.I. disturbances, nausea, headache, vomiting, skin and eye irritant.

Chronic effects: CNS depression

Target organs: CNS, GI tract.

ORL-RAT LD<sub>50</sub>: 20,000 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: 20800 mg/kg

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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: Not regulated. Hazard class: N/A. UN number: N/A.

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## SECTION 15 — REGULATORY INFORMATION

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TSCA-listed, EINECS-listed (200-338-0).

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## SECTION 16 — OTHER INFORMATION

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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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