

Safety Data Sheet (SDS)

12/16/2024: File reviewed, more current MSDS/SDS not available. CAS.

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 Synonyms: 1,2-Propylene glycol; Propylene glycol | 57-55-6 | CH ₃ CHOHCH ₂ OH | 76.1 | |

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.

NFPA Code

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

H-0

F-1

When heated to decomposition, may emit toxic fumes.

R-0

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

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

Hygroscopic. Keep container tightly closed. Store in Flinn Chem-Saf™ bag. Store in a cool dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless viscous liquid. Odorless.

Boiling point: 187 °C

Soluble: Miscible with water and many organic solvents.

Melting point: -60 °C

Specific gravity: 1.0361

Vapor pressure: 0.08 mmHg

SECTION 10 — STABILITY AND REACTIVITY

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.

SECTION 11 — TOXICOLOGICAL INFORMATION

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

ORL-RAT LD₅₀: 20,000 mg/kg

IHL-RAT LC₅₀: N.A.

Chronic effects: CNS depression

SKN-RBT LD₅₀: 20800 mg/kg

Target organs: CNS, GI tract.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

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

Flinn Suggested Disposal Method #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

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

SECTION 15 — REGULATORY INFORMATION

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

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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