

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

Material Safety Data Sheet (MSDS)

2-Propanethiol

Revision Date: 23-September-2025

Version: 1.0

Section 1: Product Identification

• **Product Name:** 2-Propanethiol

• Chemical Formula: C3H8S

• CAS No: 75-33-2

• Synonyms: Isopropyl mercaptan; Isopropanethiol

Recommended Use: Laboratory chemical; intermediate in organic synthesis; odorant.

Section 2: Hazards Identification

- Classification (GHS): Flammable liquids (Category 2); Acute toxicity, Inhalation (Category 4); Acute toxicity, Oral (Category 4); Skin irritation (Category 2); Eye irritation (Category 2A).
- Signal Word: Danger
- Hazard Statements:



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- Highly flammable liquid and vapor
- Harmful if swallowed or if inhaled
- Causes skin irritation
- Keep away from heat/sparks/open flames. No smoking
- Use explosion-proof equipment and proper ventilation
- Wear protective gloves/eye protection
- IF ON SKIN or IN EYES: Rinse cautiously with water; seek medical advice if irritation persists

Section 3: Composition / Information on Ingredients

• Concentration: 100%

Section 4: First Aid Measures

- Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
- Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately.

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Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide (CO2); water spray.
- **Specific Hazards:** Highly flammable; vapors may form explosive mixtures with air; emits toxic fumes of carbon oxides and sulfur oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Eliminate ignition sources. Avoid breathing vapors. Ensure adequate ventilation.
- Environmental Precautions: Prevent entry into drains and waterways.
- Cleanup Methods: Absorb with inert material (sand, earth). Collect in suitable container for disposal. Use non-sparking tools.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use only in well-ventilated areas. Keep away from ignition sources.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat, sparks, and open flame.

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Section 8: Exposure Controls / Personal Protection

- Exposure Limits: OSHA PEL: 10 ppm (TWA); ACGIH TLV: 0.5 ppm (TWA, skin)
- Engineering Controls: Provide adequate ventilation, explosion-proof equipment, and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respiratory protection if ventilation is inadequate.

Section 9: Physical and Chemical Properties

• Appearance: Colorless liquid

• Odor: Strong, offensive, sulfur-like odor

• Boiling Point: 59 °C

• Flash Point: -31 °C (closed cup)

• Solubility: Slightly soluble in water; miscible with most organic solvents

• Molecular Weight: 76.16 g/mol

Section 10: Stability and Reactivity

- Stability: Stable under recommended storage conditions.
- Incompatible Materials: Strong oxidizing agents, acids.

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• Hazardous Decomposition Products: Carbon oxides and sulfur oxides under fire conditions.

Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: Harmful if inhaled or swallowed; causes skin and eye irritation; may cause respiratory irritation.
- Chronic Effects: Prolonged exposure may cause liver, kidney, and central nervous system effects.

Section 12: Ecological Information

- Ecotoxicity: Toxic to aquatic life with long-lasting effects.
- Persistence and Degradability: Expected to be biodegradable.
- Bioaccumulative Potential: Low to moderate potential.

Section 13: Disposal Considerations

• Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

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Section 14: Transport Information

• UN Number: UN2402

• Proper Shipping Name: Isopropyl Mercaptan

• Hazard Class: 3 (Flammable liquids)

Packing Group: II

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

Section 16: Other Information

• **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.

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