

Material Safety Data Sheet (MSDS)

1-Butanethiol

Revision Date: 17-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** 1-Butanethiol
- **Chemical Formula:** C₄H₁₀S
- **CAS No:** 109-79-5
- **Synonyms:** n-Butyl mercaptan, Butylthiol
- **Recommended Use** As an intermediate in the manufacture of pharmaceuticals, agrochemicals, and specialty chemicals.

Section 2: Hazards Identification

2.1 Classification: Flammable liquid, Acute toxicity (oral/dermal/inhalation), Skin irritation, Eye irritation, Specific target organ toxicity

2.2 Label Elements:

Signal Word: Danger

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Hazard Statements:

- Highly flammable liquid and vapor
- Harmful if swallowed, inhaled or in contact with skin
- Causes skin and eye irritation

Precautionary Statements:

- Keep away from heat, sparks, open flames, and hot surfaces
- Wear protective gloves, protective clothing, and eye/face protection
- Use explosion-proof electrical/ventilation equipment

Section 3: Composition/Information on Ingredients

Chemical Name: 1-Butanethiol

CAS No: 109-79-5

EC No: 203-705-3

Molecular Formula: C₄H₁₀S

Concentration: ≥ 99%

Section 4: First Aid Measures

4.1 Inhalation: Move the person to fresh air. If not breathing, provide artificial respiration. Seek medical attention.

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4.2 Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

4.3 Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Get immediate medical advice.

4.4 Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Seek immediate medical advice.

Section 5: Firefighting Measures

5.1 Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical powder, carbon dioxide

5.2 Special Hazards: Flammable vapors may form explosive mixtures with air. Hazardous decomposition products include sulfur oxides.

5.3 Protective Equipment: Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

6.1 Personal Precautions: Evacuate area. Use protective equipment. Avoid breathing vapors.

6.2 Environmental Precautions: Prevent entry into drains, sewers, and waterways.

6.3 Methods for Cleaning: Absorb with inert material and collect in suitable container for disposal. Ventilate area.

Section 7: Handling and Storage

7.1 Handling: Avoid contact with skin and eyes. Use in well-ventilated areas. Keep away from ignition sources.

7.2 Storage: Store in tightly closed container in cool, dry, well-ventilated place. Keep away from incompatible materials.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters: Occupational exposure limits not established in India. Use standard safety practices.

8.2 Personal Protective Equipment:

- **Respiratory Protection:** Use approved respirator if ventilation is inadequate
- **Hand Protection:** Wear chemical-resistant gloves
- **Eye Protection:** Safety goggles
- **Skin Protection:** Protective clothing

Section 9: Physical and Chemical Properties

Appearance: Colorless to pale yellow liquid

Odor: Strong unpleasant odor

Boiling Point: 98 °C

Melting Point: -116 °C

Flash Point: -18 °C

Solubility: Slightly soluble in water

Density: 0.84 g/cm³

Section 10: Stability and Reactivity

10.1 Stability: Stable under normal storage and handling conditions.

10.2 Conditions to Avoid: Heat, sparks, flames, static discharge.

10.3 Incompatible Materials: Strong oxidizing agents, acids, bases.

10.4 Hazardous Decomposition Products: Sulfur oxides, carbon monoxide, carbon dioxide.

Section 11: Toxicological Information

11.1 Acute Toxicity: Harmful if swallowed, inhaled, or absorbed through skin.

11.2 Skin Corrosion/Irritation: Causes skin irritation.

11.3 Eye Damage/Irritation: Causes serious eye irritation.

11.4 Respiratory Effects: May cause respiratory irritation.

Section 12: Ecological Information

12.1 Ecotoxicity: Toxic to aquatic life.

12.2 Persistence and Degradability: Expected to be biodegradable.

12.3 Bioaccumulative Potential: Low potential for bioaccumulation.

12.4 Mobility in Soil: Volatile, may contaminate groundwater.

Section 13: Disposal Considerations

Dispose of contents/container according to local/regional/national regulations. Incineration recommended for waste disposal.

Section 14: Transport Information

UN Number: 2347

Proper Shipping Name: 1-Butanethiol

Transport Hazard Class: 3 (Flammable Liquids)

Packing Group: II

Labels: Flammable, Toxic

Section 15: Regulatory Information

Complies with Indian Factories Act and Hazardous Chemicals Rules. Subject to REACH regulation and international transport regulations.

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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