

Material Safety Data Sheet (MSDS)

Dimethyl Sulfide

Revision Date: 29-August-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Dimethyl Sulfide
- **Chemical Formula:** C₂H₆S
- **CAS No:** 75-18-3
- **Synonyms:** Methyl sulfide, DMS
- **Recommended Use:** Used as a solvent, intermediate in chemical synthesis, and in flavor and fragrance formulations.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid (Category 2), Acute Toxicity (Inhalation, Category 4), Skin Irritant (Category 2), Eye Irritant (Category 2A).
- **Signal Word:** Danger
- **Hazard Statements:**

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- Highly flammable liquid and vapor
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation

• **Precautionary Statements:**

- Keep away from heat, sparks, open flames, and hot surfaces
- Use explosion-proof equipment and proper ventilation
- Avoid breathing vapors
- Wear protective gloves, clothing, and eye protection

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 99\%$ (typical commercial grade)

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air immediately. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek immediate medical attention if irritation persists.

- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** Vapors may form explosive mixtures with air. Emits toxic fumes of sulfur oxides and carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Ensure proper ventilation. Remove all sources of ignition.
- **Environmental Precautions:** Prevent entry into drains, soil, and water bodies.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Place in suitable container for disposal. Avoid sparks and open flames.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors. Avoid contact with skin, eyes, and clothing. Use only in well-ventilated areas. Ground and bond containers when transferring material.

- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Keep away from ignition sources and oxidizing agents.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV: 10 ppm (TWA)
- **Engineering Controls:** Provide adequate ventilation, fume extraction, and explosion-proof equipment.
- **Personal Protective Equipment:** Protective gloves, goggles, flame-resistant lab coat, and approved respirator if necessary.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless liquid
- **Odor:** Strong, disagreeable cabbage-like odor
- **Boiling Point:** 37 °C
- **Melting Point:** -98 °C
- **Flash Point:** -36 °C (closed cup)
- **Solubility:** Slightly soluble in water; miscible with organic solvents
- **Molecular Weight:** 62.13 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** Sulfur oxides and carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin, and eye contact.
- **Acute Effects:** Harmful if inhaled. Causes skin and eye irritation. May cause respiratory tract irritation, dizziness, headache, or nausea.
- **Chronic Effects:** Prolonged exposure may cause liver and kidney effects.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms at high concentrations.
- **Persistence and Degradability:** Readily biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Avoid release into the environment.

Section 14: Transport Information

- **UN Number:** UN 1163
- **Proper Shipping Name:** Dimethyl Sulfide
- **Hazard Class:** 3 (Flammable liquid)
- **Packing Group:** II

Section 15: Regulatory Information

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