

Material Safety Data Sheet (MSDS)

Dimethyl Disulfide

Prepared by: Triveni Chemicals

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Version: 1.0

Section 1: Product Identification

- **Product Name:** Dimethyl Disulfide
- **Chemical Formula:** C₂H₆S₂
- **CAS No:** 624-92-0
- **Recommended Use:** Used as a chemical intermediate, in petroleum refining, and as a soil fumigant.

▪ **Supplier:**

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Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid (Category 3), Acute Toxicity Oral/Inhalation (Category 4), Skin Irritant (Category 2), Eye Irritant (Category 2A).
- **Signal Word:** Danger
- **Hazard Statements:**
 - Flammable liquid and vapor
 - Harmful if swallowed or inhaled
 - Causes skin irritation
 - Causes serious eye irritation
- **Precautionary Statements:**
 - Keep away from heat, sparks, open flames, and hot surfaces
 - Avoid breathing vapors
 - Wear protective gloves, clothing, and eye protection
 - Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Chemical Name:** Dimethyl Disulfide

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- **Synonyms:** DMDS
- **CAS Number:** 624-92-0
- **Concentration:** >95%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen and seek medical attention immediately.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **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, alcohol-resistant 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 protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid inhalation and skin/eye contact. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains, surface water, and soil.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Place in suitable container for disposal.

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:** Store in a tightly closed container in a cool, dry, and well-ventilated place. Keep away from heat and sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** OSHA PEL: 0.5 ppm (8h TWA)
- **Engineering Controls:** Ensure adequate ventilation and use fume hood where applicable.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Strong, unpleasant sulfur-like odor
- **Boiling Point:** 110 °C
- **Melting Point:** -85 °C
- **Flash Point:** 16 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 94.2 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids, and bases.
- **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 swallowed or inhaled. Causes irritation to skin, eyes, and respiratory tract.
- **Chronic Effects:** Prolonged exposure may cause liver and kidney damage.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate 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 2381
- **Proper Shipping Name:** Dimethyl Disulfide
- **Hazard Class:** 3 (6.1)
- **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

- **Prepared By:** Triveni Chemicals, Regulatory Affairs Department
- **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.