

Material Safety Data Sheet (MSDS)

Methyl Dioxolane

Revision Date: 13-October-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Methyl Dioxolane
- **Chemical Formula:** C₄H₈O₂
- **CAS No:** 497-26-7
- **Synonyms:** 2-Methyl-1,3-dioxolane; 1,3-Dioxolane, 2-methyl-; Propylene glycol formal
- **Recommended Use:** Used as a solvent, intermediate in chemical synthesis, and stabilizer in formulations.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid, Category 2; Eye irritation, Category 2A; Specific target organ toxicity (single exposure), Category 3 (narcotic effects).
- **Signal Word:** Danger
- **Hazard Statements:** Highly flammable liquid and vapor. Causes serious eye irritation.

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- Harmful if swallowed
- Causes skin irritation and serious eye irritation
- Combustible liquid
- Keep away from heat/sparks/open flames. No smoking
- 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:** $\geq 99\%$

Section 4: First Aid Measures

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

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use foam, carbon dioxide, dry chemical. Do not use a direct water jet.
- **Specific Hazards:** Vapors may form explosive mixtures with air. Containers may explode under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid breathing vapors. Remove all ignition sources. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent leakage or spillage into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, vermiculite) and collect for disposal.

Section 7: Handling and Storage

- **Handling:** Use only in well-ventilated areas. Avoid inhalation and contact with skin or eyes. Keep away from heat and sparks.
- **Storage:** Keep container tightly closed in a cool, dry, and well-ventilated place. Store away from oxidizing agents.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established. Maintain exposure below detectable vapor concentration.
- **Engineering Controls:** Use explosion-proof equipment and local exhaust ventilation to control vapors.
- **Personal Protective Equipment:** Wear gloves, chemical safety goggles, and protective clothing. Use respirator if exposure exceeds limits.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless liquid.
- **Odor:** Ether-like odor.
- **Boiling Point:** 83 °C
- **Flash Point:** -2 °C (closed cup)
- **Solubility:** Miscible with water and most organic solvents.
- **Molecular Weight:** 88.11 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Incompatible Materials:** Strong acids, strong oxidizing agents.

- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** May cause respiratory irritation, dizziness, and eye irritation.
- **Chronic Effects:** Prolonged exposure may cause central nervous system effects.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long lasting effects.
- **Persistence and Degradability:** Expected to be readily biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** UN 1993
- **Proper Shipping Name:** Flammable liquid, n.o.s. (Methyl Dioxolane)
- **Hazard Class:** 3
- **Packing Group:** II

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- 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.