

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)

# **Methyl Formate**

Revision Date: 25-August-2025

Version: 1.0

### Section 1: Product Identification

• Product Name: Methyl Formate

• Chemical Formula: C2H4O2

• CAS No: 107-31-3

• Synonyms: Formic acid methyl ester, Methyl methanoate

• Recommended Use: Intermediate in chemical synthesis, solvent in industry, and fuel additive.

### Section 2: Hazards Identification

- Classification (GHS): Flammable Liquid (Category 2), Acute Toxicity Oral (Category 4), Acute Toxicity Inhalation (Category 3).
- Signal Word: Danger
- Hazard Statements:



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- Highly flammable liquid and vapor
- Harmful if swallowed
- Toxic if inhaled

### • Precautionary Statements:

- Keep away from heat, sparks, open flames, and hot surfaces
- Avoid breathing vapors
- Wear protective gloves, eye protection, and respiratory protection
- Wash hands thoroughly after handling

# Section 3: Composition / Information on Ingredients

• Concentration: >95%

### Section 4: First Aid Measures

- **Inhalation:** Move victim to fresh air. Provide artificial respiration if needed. Seek immediate medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Get medical attention if irritation occurs.
- Eye Contact: Rinse cautiously with water for several minutes. Seek immediate medical attention.

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• Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

## Section 5: Fire-Fighting Measures

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

### Section 6: Accidental Release Measures

- **Personal Precautions:** Evacuate area. Eliminate ignition sources. Use personal protective equipment and ensure ventilation.
- Environmental Precautions: Prevent entry into drains and waterways.
- Cleanup Methods: Absorb with inert material (sand, earth). Collect in suitable, closed containers for disposal.

## Section 7: Handling and Storage

• **Handling:** Handle in well-ventilated areas. Avoid inhalation and contact with skin/eyes. Keep away from ignition sources.

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• **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from direct sunlight and heat sources.

## Section 8: Exposure Controls / Personal Protection

- Exposure Limits: OSHA PEL: 100 ppm (240 mg/m³) TWA; ACGIH TLV: 100 ppm TWA.
- Engineering Controls: Provide adequate ventilation and explosion-proof equipment.
- **Personal Protective Equipment:** Gloves, safety goggles, flame-resistant clothing, respirator if exposure limits are exceeded.

## Section 9: Physical and Chemical Properties

• Appearance: Colorless liquid

• Odor: Ethereal odor

• Boiling Point: 31.5 °C

• Flash Point: -19 °C (closed cup)

Solubility: Miscible with water, alcohol, and most organic solvents

• Molecular Weight: 60.05 g/mol

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### Section 10: Stability and Reactivity

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

## Section 11: Toxicological Information

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

# Section 12: Ecological Information

- Ecotoxicity: Harmful to aquatic life with long-term effects possible.
- Persistence and Degradability: Expected to be biodegradable.
- Bioaccumulative Potential: Low potential for bioaccumulation due to volatility.

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### 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 1243

• Proper Shipping Name: Methyl Formate

• Hazard Class: 3 (Flammable Liquid)

Packing Group: I

## Section 15: Regulatory Information

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

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### 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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