

Material Safety Data Sheet (MSDS)

Methyl 2-Furoate

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Methyl 2-Furoate
- **Chemical Formula:** C₆H₆O₃
- **CAS No:** 611-13-2
- **Synonyms:** 2-Furancarboxylic acid methyl ester; Furoic acid methyl ester
- **Recommended Use:** Used in flavor and fragrance formulations, and as an intermediate in organic synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritation (Category 2); Eye Irritation (Category 2A)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye irritation
- **Precautionary Statements:**
 - Wear protective gloves, protective clothing, and eye protection
 - Wash thoroughly after handling

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- If on skin: wash with plenty of water
- If in eyes: rinse cautiously with water for several minutes

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 95\%$

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If breathing is difficult, seek medical advice.
- **Skin Contact:** Wash skin with soap and water. Remove contaminated clothing. Seek medical advice if irritation occurs.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
- **Specific Hazards:** 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:** Avoid inhalation of vapors and contact with skin/eyes. Use protective equipment.
- **Environmental Precautions:** Prevent release to drains and waterways.
- **Cleanup Methods:** Absorb with inert material. Collect into suitable containers for disposal. Wash spill area with water.

Section 7: Handling and Storage

- **Handling:** Avoid breathing vapors and contact with skin and eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from heat and sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Fruity, caramel-like odor
- **Boiling Point:** 181 °C
- **Flash Point:** 73 °C (closed cup)
- **Solubility:** Slightly soluble in water; miscible with alcohol and organic solvents
- **Molecular Weight:** 126.11 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides.
- **Conditions to Avoid:** Heat, flames, and direct sunlight.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes irritation to skin, eyes, and respiratory tract. Oral LD50 (rat): >1,000 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic organisms.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Expected to be mobile in soil.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** UN2810
- **Proper Shipping Name:** Methyl 2-Furoate
- **Hazard Class:** 6.1
- **Packing Group:** III

Section 15: Regulatory Information

- Listed on chemical inventories (TSCA, EINECS, etc.). Complies with Indian chemical safety regulations.
- Classified as hazardous under GHS as noted above.

Section 16: Other Information

Disclaimer: The information provided is believed to be correct but does not claim to be exhaustive. Users must verify suitability under actual use conditions. Triveni Chemicals disclaims liability for damage resulting from handling or contact.

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