

Material Safety Data Sheet (MSDS)

Methyl Octanoate

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Methyl Octanoate
- **Chemical Formula:** C₉H₁₈O₂
- **CAS No:** 111-11-5
- **Synonyms:** Caprylic acid methyl ester; Methyl caprylate
- **Recommended Use:** Used in flavors, fragrances, and as an intermediate in organic synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid (Category 4); Skin Irritant (Category 2); Eye Irritant (Category 2B)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Combustible liquid
 - Causes skin irritation
 - Causes eye irritation
- **Precautionary Statements:**
 - Keep away from heat, sparks, open flames

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- Wear protective gloves and eye protection
- Wash thoroughly after handling
- 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 to fresh air. If breathing is difficult, seek medical attention.
- **Skin Contact:** Wash 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 if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Combustible liquid; 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. Wear protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Absorb with inert material. Collect in suitable containers for disposal. Wash spill area thoroughly.

Section 7: Handling and Storage

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

Section 8: Exposure Controls / Personal Protection

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

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Fruity, waxy odor
- **Boiling Point:** 194 - 195 °C
- **Flash Point:** 82 °C (closed cup)
- **Solubility:** Practically insoluble in water; miscible with alcohol and organic solvents
- **Molecular Weight:** 158.24 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage and handling conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides.
- **Conditions to Avoid:** Excessive heat, open flames, sparks.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes irritation to skin and eyes. Oral LD50 (rat): >5,000 mg/kg.
- **Chronic Effects:** Prolonged or repeated 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:** Mobile in soil; may leach to groundwater.

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:** Not regulated
- **Proper Shipping Name:** Methyl Octanoate
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Listed on major 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 conditions of use. Triveni Chemicals disclaims liability for damage resulting from handling or contact.

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