

## Material Safety Data Sheet (MSDS)

### Methyl 6-Methylnicotinate

Revision Date: 22-September-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** Methyl 6-Methylnicotinate
- **Chemical Formula:** C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>
- **CAS No:** 5470-70-2
- **Synonyms:** 6-Methylpyridine-3-carboxylic acid methyl ester
- **Recommended Use** Used as an intermediate in pharmaceutical and fine chemical synthesis.

#### Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2), Eye Irritant (Category 2A).
- **Signal Word:** Warning
- **Hazard Statements:**
  - Causes skin irritation

+91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

info@triveniinterchem.com | info@trivenichemical.com

www.triveniinterchem.com | www.trivenichemical.com

135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



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- Causes serious eye irritation

• **Precautionary Statements:**

- Avoid contact with skin and eyes
- Wear protective gloves and eye protection
- Wash hands thoroughly after handling

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## Section 3: Composition / Information on Ingredients

- **Chemical Name:** Methyl 6-Methylnicotinate
- **Concentration:**  $\geq 95\%$

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## Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if unwell.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Emits toxic fumes of carbon oxides and nitrogen 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 and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for proper disposal.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from heat and light.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for this substance.
- **Engineering Controls:** Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

## Section 9: Physical and Chemical Properties

- **Odor:** Mild, characteristic odor
- **Boiling Point:** 160 °C (estimated)
- **Flash Point:** 110 °C (closed cup, estimated)
- **Solubility:** Slightly soluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 151.16 g/mol

## Section 10: Stability and Reactivity

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

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation.
- **Chronic Effects:** No significant chronic effects known.
- **Carcinogenicity:** Not classified as carcinogen.

## Section 12: Ecological Information

- **Ecotoxicity:** Not classified as environmentally hazardous, but avoid large releases.
- **Persistence and Degradability:** Expected to be biodegradable under normal conditions.
- **Bioaccumulative Potential:** Low potential.

## 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:** Not regulated
- **Proper Shipping Name:** Methyl 6-Methylnicotinate
- **Hazard Class:** Not classified as dangerous goods

- **Packing Group:** Not applicable

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## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- Classified as hazardous substance as per 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.