

## Material Safety Data Sheet (MSDS)

### 5-Ethyl-2-Methylpyridine

Revision Date: 23-September-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** 5-Ethyl-2-Methylpyridine
- **Chemical Formula:** C<sub>8</sub>H<sub>11</sub>N
- **CAS No:** 104-90-5
- **Synonyms:** 2-Methyl-5-ethylpyridine; 5-Ethyl-2-picoline
- **Recommended Use:** Laboratory chemical; intermediate in organic synthesis.

#### Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid (Category 3); Acute toxicity, Oral (Category 4); Skin irritation (Category 2); Eye irritation (Category 2A); Specific target organ toxicity – single exposure (Category 3).
- **Signal Word:** Warning
- **Hazard Statements:**

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- Flammable liquid and vapor
- Harmful if swallowed
- Causes skin irritation
- Keep away from heat/sparks/open flames. No smoking
- Wash thoroughly after handling
- Wear protective gloves/eye protection
- **IF INHALED:** Remove to fresh air and seek medical attention if symptoms persist

## Section 3: Composition / Information on Ingredients

- **Concentration:** 100%

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO<sub>2</sub>); water spray.
- **Specific Hazards:** Flammable liquid; vapors may form explosive mixtures with air. Emits toxic fumes of nitrogen oxides and carbon oxides when burned.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation. Remove ignition sources.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use with adequate ventilation. Keep away from ignition sources.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat and oxidizing agents.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established (refer to local occupational exposure guidelines).
- **Engineering Controls:** Provide adequate ventilation and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respiratory protection if ventilation is inadequate.

## Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Strong, unpleasant odor
- **Boiling Point:** 178 °C
- **Flash Point:** 54 °C (closed cup)
- **Solubility:** Slightly soluble in water; miscible with organic solvents
- **Molecular Weight:** 121.18 g/mol

## Section 10: Stability and Reactivity

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

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed or inhaled; causes skin and eye irritation; may cause respiratory irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause liver and kidney damage.

## Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms in high concentrations.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate 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:** UN2300
- **Proper Shipping Name:** 5-Ethyl-2-Methylpyridine
- **Hazard Class:** 6.1
- **Packing Group:** III

## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- 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.