

## Material Safety Data Sheet (MSDS)

### Cinnamic Acid

Revision Date: 24-September-2025

Version: 1.0

### Section 1: Product Identification

- **Product Name:** Cinnamic Acid
- **Chemical Formula:** C<sub>9</sub>H<sub>8</sub>O<sub>2</sub>
- **CAS No:** 140-10-3
- **Synonyms:** trans-Cinnamic Acid; (E)-3-Phenyl-2-propenoic acid
- **Recommended Use:** Used in flavorings, fragrances, pharmaceuticals, and as a chemical intermediate.

### Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2A)
- **Signal Word:** Warning
- **Hazard Statements:**
  - Causes skin irritation
  - Causes serious eye irritation
- **Precautionary Statements:**
  - Avoid contact with skin and eyes

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- Wear protective gloves/eye protection
- Wash thoroughly after handling

## Section 3: Composition / Information on Ingredients

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

## Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms occur, 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. Seek medical advice if irritation continues.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Combustion may produce carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Avoid inhalation and skin/eye contact. Ensure ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up or vacuum without generating dust. Collect in suitable container for proper disposal.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of dust. Avoid skin/eye contact. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat sources.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protective Equipment:** Gloves, goggles, protective clothing; dust mask or respirator if ventilation is inadequate.

## Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline solid
- **Odor:** Faint, balsamic odor
- **Melting Point:** 132–135 °C
- **Boiling Point:** 300 °C (decomposes)
- **Flash Point:** 150 °C
- **Solubility:** Slightly soluble in water; soluble in ethanol, ether, chloroform
- **Molecular Weight:** 148.16 g/mol

## Section 10: Stability and Reactivity

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

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation. Oral LD50 (rat) 2220 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or respiratory irritation.

## Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be harmful at low concentrations.
- **Persistence and Degradability:** Expected to be biodegradable.
- **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:** Cinnamic Acid
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- 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 liability for damage resulting from handling or contact.

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