

## Material Safety Data Sheet (MSDS)

### Cinnamic Aldehyde

Revision Date: 29-August-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** Cinnamic Aldehyde
- **Chemical Formula:** C<sub>9</sub>H<sub>8</sub>O
- **CAS No:** 104-55-2
- **Synonyms:** Cinnamaldehyde, 3-Phenyl-2-propenal
- **Recommended Use:** Used in flavoring, perfumery, and as an intermediate in organic synthesis.

#### Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2), Skin Sensitizer (Category 1), Eye Irritant (Category 2A).
- **Signal Word:** Warning
- **Hazard Statements:**

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- Causes skin irritation
- May cause an allergic skin reaction
- Causes serious eye irritation

• **Precautionary Statements:**

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

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## Section 3: Composition / Information on Ingredients

- **Concentration:**  $\geq 95\%$  (typical commercial grade)
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## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek immediate medical attention if irritation persists.

- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention.

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## 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 under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

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## Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Avoid inhalation and skin/eye contact. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains, soil, and water bodies.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Place in suitable container for disposal.

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## Section 7: Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors. Use only in well-ventilated areas.

- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Protect from light and heat.

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## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for this compound.
- **Engineering Controls:** Provide adequate ventilation and fume hood.
- **Personal Protective Equipment:** Protective gloves, goggles, lab coat, and respirator if necessary.

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## Section 9: Physical and Chemical Properties

- **Appearance:** Pale yellow to yellow liquid
- **Odor:** Sweet, cinnamon-like odor
- **Boiling Point:** 248 °C
- **Melting Point:** -7.5 °C
- **Flash Point:** 71 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 132.16 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, and bases.
- **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. May cause allergic skin reactions.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or sensitization.

## Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low to moderate potential for bioaccumulation.

## Section 13: Disposal Considerations

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

## Section 14: Transport Information

- **UN Number:** UN 2256
- **Proper Shipping Name:** Cinnamaldehyde
- **Hazard Class:** 9 (Miscellaneous hazardous substances)
- **Packing Group:** III

## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and international inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance under 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.

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