

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

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: C9H8O

• 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:



- info@triveniinterchem.com | info@trivenichemical.com

 info@triven
- www.triveniinterchem.com | www.trivenichemical.com
- O 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India





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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

Section 3: Composition / Information on Ingredients

• Concentration: ≥ 95% (typical commercial grade)

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.

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

Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO2).
- Specific Hazards: Emits toxic fumes of carbon oxides under fire conditions.
- **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 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.

Section 7: Handling and Storage

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

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

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.

Section 9: Physical and Chemical Properties

• Appearance: Pale yellow to yellow liquid

• Odor: Sweet, cinnamon-like odor

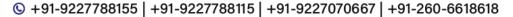
Boiling Point: 248 °C

• 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



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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.

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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.

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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.



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