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Oxford
Range of
Laboratory Chemicals

# MATERIAL SAFETY DATA SHEET

## CINNAMALDEHYDE 98%
## (Cinnamic Aldehyde)
## (For Synthesis)
## MSDS CAS: 104-55-2

## Section 1: Chemical Product and Company Identification

**Section 1: Chemical Product**
**Product Name:** Cinnamaldehyde
**CAS#:** 104-55-2
**Synonym:** Cinnamic Aldehyde, trans-3-Phenyl-2-propenal
**Chemical Name:** Cinnamaldehyde
**Chemical Formula:** $C_9H_8O$

**Brand : OXFORD**

**Details Of The Supplier Of The Safety Data Sheet :**

**Company identification:** OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

## Section 2: Composition and Information on Ingredients

**Composition:**

| Name | CAS # | % by Weight |
|---|---|---|
| Cinnamaldehyde | 104-55-2 | 100 |

**Toxicological Data on Ingredients:** Cinnamaldehyde: ORAL (LD50): Acute: 2220 mg/kg [Rat]. 1160 mg/kg [Guineapig].

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# Section 3: Hazards Identification

**Potential Acute Health Effects:** **Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.**

**Potential Chronic Health Effects:**
**Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.**
**CARCINOGENIC EFFECTS: Not available.**
**MUTAGENIC EFFECTS: Not available.**
**TERATOGENIC EFFECTS: Not available.**
**DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.**

# Section 4: First Aid Measures

**Eye Contact:**
**Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.**

**Skin Contact:**
**After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.**

**Serious Skin Contact:**
**Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.**

**Inhalation:** **Allow the victim to rest in a well ventilated area. Seek immediate medical attention.**

**Serious Inhalation:** **Not Available.**

**Ingestion:**
**Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.**

**Serious Ingestion:** **Not available.**

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# Section 5: Fire and Explosion Data

**Flammability of the Product:** Combustible.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** CLOSED CUP: 71°C (159.8°F).

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO2).

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

# Section 6: Accidental Release Measures

**Small Spill:**
Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spill:**
Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

# Section 7: Handling and Storage

**Precautions:**

**Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment if ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.**

**Storage:**

**Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.**

# Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

**Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.**

**Personal Protection:**

**Splash goggles. Lab coat. Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.**

**Personal Protection in Case of a Large Spill:**

**Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.**

**Exposure Limits: Not available.**

# Section 9: Physical and Chemical Properties

**Physical state and appearance: Liquid. (Oily liquid.)**

| | |
|---|---|
| **Odor** | **: Not available.** |
| **Taste** | **: Not available.** |
| **Molecular Weight** | **: 132.15 g/mole** |
| **Color** | **: Yellow.** |

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## Section 9: Physical and Chemical Properties (Continued)

| | |
|---|---|
| **pH (1% soln/water)** | **: Not applicable.** |
| **Boiling Point** | **: 252°C (485.6°F)** |
| **Melting Point** | **: -7.5°C (18.5°F)** |
| **Critical Temperature** | **: Not applicable.** |
| **Specific Gravity** | **: 1.05 (Water = 1)** |
| **Vapor Pressure** | **: Not applicable.** |
| **Vapor Density** | **: 4.6 (Air = 1)** |
| **Volatility** | **: Not available.** |
| **Odor Threshold** | **: Not applicable.** |
| **Water/Oil Dist. Coeff.** | **: Not applicable.** |
| **Ionicity (in Water)** | **: Not available.** |
| **Dispersion Properties** | **: See solubility in water, methanol, diethyl ether.** |
| **Solubility** | **: Soluble in methanol, diethyl ether. Very slightly soluble in cold water.** |

## Section 10: Stability and Reactivity Data

**Stability:** **The product is stable.**

**Instability Temperature:** **Not available.**

**Conditions of Instability:** **Not available.**

**Incompatibility with various substances:** **Not available.**

**Corrosivity:** **Not available.**

**Special Remarks on Reactivity:** **Not available.**

**Special Remarks on Corrosivity:** **Not available.**

**Polymerization:** **No.**

# Section 11: Toxicological Information

**Routes of Entry:** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 1160 mg/kg [Guinea pig].

**Chronic Effects on Humans:** The substance is toxic to mucous membranes.

**Other Toxic Effects on Humans:**
Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not Available.

**Special Remarks on other Toxic Effects on Humans:** Not Available.

# Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

# Section 13: Disposal Considerations

**Waste Disposal :**

# Section 14: Transport Information

**Land transport (ADR-RID)**

**General information :** Not regulated.

**Sea transport (IMDG) [English only]**

**General information :** Not regulated.

**Air transport (ICAO-IATA) [English only]**

**General information :** Not regulated.

# Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: trans-Cinnamaldehyde

**Other Regulations:**
**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**
**WHMIS (Canada):** CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
**DSCL (EEC):** R36/38- Irritating to eyes and skin.

**HMIS (U.S.A.):**
**Health Hazard:** 2
**Fire Hazard:** 2
**Reactivity:** 0
**Personal Protection:** h

**National Fire Protection Association (U.S.A.):**
**Health:** 2
**Flammability:** 2
**Reactivity:** 0
**Specific hazard:**

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## Section 15: Other Regulatory Information (Continued)

**Protective Equipment:**
**Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.**

## Section 16 - Additional Information

**References: Not available.**

**Other Special Considerations: Not available.**

## *Disclaimer:*

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