

Section 1. Product and Company Identification

**Product Name** Cinnamic Aldehyde  
**CAS Number** 104-55-2

**Parchem - fine & specialty chemicals**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classifications**

Acute Toxicity (Dermal) - Category 4  
Acute Toxicity (Oral) - Category 5  
Eye Irritation - Category 2A  
Environmental Hazard (Acute) - Category 2  
Skin Irritation - Category 2  
Skin Sensitizer - Category 1

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statements**

H312 - Harmful in contact with skin (1100)  
H303 - May be harmful if swallowed (2500)  
H319 - Causes serious eye irritation  
H401 - Toxic to aquatic life  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction

**Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapor/spray  
P264 - Wash... (hands/face) thoroughly after handling



P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302/352 - IF ON SKIN: Wash with plenty of soap and water  
P305/351/358 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing  
P312 - Call a poison center or doctor/physician if you feel unwell  
P332/313 - IF SKIN IRRITATION OCCURS: Get medical advice/attention  
P333/313 - IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention  
P337/313 - IF EYE IRRITATION PERSISTS: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse  
P363 - Wash contaminated clothing before reuse  
P501 - Dispose of contents/container to, (in accordance with local/regional/national/ international regulation)

### Potential Health Effects

Irritant

Irritating to eyes, respiratory system, and skin.

Keep out of reach of children.

Wear suitable gloves and eye/face protection.

### Section 3. Composition / Information on Ingredients

<b>Common Name</b>	Cinnamic Aldehyde
<b>Synonym(s)</b>	3-Phenyl-2-Propenal
<b>Formula</b>	$C_9H_8O$
<b>CAS Number</b>	104-55-2

### Section 4. First Aid Measures

**Eye Contact:** Remove contact lenses. Immediately flush eyes with plenty of clean water for an extended time, not less than 5 minutes. Flush longer if there is any indication of residual chemical in eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains ( at least 15 - 20 minutes). Launder clothing before re-use. If irritation develops, call a physician.

**Ingestion:** In the event of accidental ingestion, do not induce vomiting. Rinse out the mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

#### Section 5. Firefighting Measures

**Extinguishing Media:** Foam; CO<sub>2</sub>; Dry Chemical

**Unusual Fire and Explosion Hazards:** Irritation or Toxic Substances may be emitted upon burning combustion or decomposition.

**Firefighting Procedures:** Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure demand mode (or other positive pressure mode) and approved protective clothing. Personnel without respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during the cleanup immediately after a fire as well as during the attack phase of the firefighting operations

#### Section 6. Accidental Release Measures

**Containment Techniques:** Prevent entry into sewers and waterways. Contain by diking with sand, earth, or other non-combustible material. If spilled in an enclosed area, ventilate.

**Clean-up Techniques:** Wear proper personal protective clothing and equipment. Do not flush into public sewer, water systems or surface waters. Eliminate sources of ignition. Soak up large spill residue and small spills with an inert absorbent. Place into labeled, closed container.

#### Section 7. Handling and Storage

**Handling:** Wash hands thoroughly after handling this product. Always wash up before eating, smoking, or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking tasting, swallowing, or ingesting this product. Provide eyewash fountains and safety showers in the work area.

**Storage:** Empty container contains residual product which may exhibit hazards of the product. Store in a cool and dry, under well-ventilated conditions. Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Product can easily oxidize. It is recommended that opened containers be padded with nitrogen. Keep Away from heat, sparks and open flames.

#### Section 8. Exposure Controls / Personal Protection

**OSHA TWA:** Not determined

**ACGIH TWA:** Not determined

**NIOSH TWA:** Not determined

**OSHA PEL:** Not determined

**ACGIH STEL:** Not determined

**NIOSH STEL:** Not determined

Section 9. Physical and Chemical Properties

**Appearance/Odor:** Pale-yellow liquid with strong cinnamon-like odor

**Specific Gravity (25°C):** 1.0487

**Refractive Index (20°C):** 1.6210

**Boiling Point:** 253°C

**Solubility in Water:** Slightly

**Flash Point:** > 212°F

**Melting Point:** N/A

Section 10. Stability and Reactivity

**Stability:** Stable under normal conditions

**Conditions to Avoid:** Excessive heat, open flames, and other sources of ignition.

**Materials to Avoid:** Strong oxidizing agents, strong reducing agents, and strong bases.

**Hazardous By Products:** Carbon monoxide and carbon dioxide. Hazardous polymerization will not occur.

Section 11. Toxicological Information

**Oral (LD50):** Rat - 2200 mg/kg

**Dermal (LD50):** Rabbit - 0.59 ml/kg

**Skin Irritation:** Human - 40 mg/48r - Severe

**Eye Irritation:** Not determined

**Inhalation (LC50):** Not determined

**Mutagenicity:** Not determined

**Phototoxicity:** Not determined

**Human Data (8% Solution):** Skin Irritation

**Human Data (2% Solution):** Sensitizing

**Carcinogenicity:** Negative

**Reproductive Toxin:** Negative

Section 12. Ecological Information

**Biodegradability**

**Readily biodegradable:** Not Determined

**Inherently Biodegradable:** Not Determined

**Ecotoxicity**

**Fish:** Not determined

**Algae:** Not determined

**Daphnia:** Not determined

**Bacteria:** Not determined



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**US DOT Hazard Class:** Not regulated  
**Land Transport (ADR/RID):** Not regulated  
**Marine Transport (IMDG):** Not regulated  
**Air Transport (IATA):** Not regulated

Section 15. Regulatory Information

**Symbol**

Xn - Harmful

**R-Phrases**

R21 - Harmful In Contact With Skin  
R38 - Irritating to skin  
R43 - May cause sensitization by skin contact

**S-Phrases**

S24 - Avoid contact with skin  
S36/37 - Wear suitable protective clothing and gloves

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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