

BFGoodrich Kalama Emergency Phone 1-360-673-2550 CHEMTREC 1-800-424-9300

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**I** PRODUCT INFORMATION

PRODUCT NAME: **HEXYL CINNAMIC ALDEHYDE**  
CHEMICAL NAME:  $\alpha$ -Hexylcinnamaldehyde  
SYNONYMS:  $\alpha$ -n-Hexyl Cinnamic Aldehyde; HCA  
Octanal, 2-(phenylmethylene)-  
CHEMICAL FAMILY: Aromatic Unsaturated Aldehydes  
MOLECULAR FORMULA:  $C_6H_5CH=C(C_6H_{13})CHO$  ( $C_{15}H_{20}O$ )  
MOLECULAR WEIGHT: 216.35  
CAS REG #: 101-86-0

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**II** SUMMARY OF HAZARDS

**CAUTION! MAY CAUSE EYE IRRITATION**

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**III** PHYSICAL PROPERTIES

APPEARANCE: Pale yellow liquid  
ODOR: Jasmine-like  
BOILING POINT: 581°F (305°C)  
MELTING POINT: 4°C (39°F)  
VAPOR PRESSURE: < 0.02 mm Hg @ 68°F (20°C)  
SOLUBILITY IN WATER: Negligible  
SPECIFIC GRAVITY: 0.955 @ 77°F (H<sub>2</sub>O=1)  
WEIGHT PER GALLON: 8.0 #  
EVAP RATE: <0.01 (Butyl Acetate = 1)  
% VOLATILE: 100  
VAPOR DENSITY: 7 (Air = 1)

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**IV** FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (TCC): > 200°F (100°C) FLAMMABLE LIMITS: Not determined  
AUTOIGNITION TEMP: Not determined DECOMPOSITION TEMP: Not determined

**FIRE and EXPLOSION HAZARDS:** Decomposition under fire conditions will generate carbon monoxide and may generate other toxic vapors.

**FIRE FIGHTING INFORMATION:** Use CO<sub>2</sub>, foam, or dry chemical to extinguish fire. Water can be used to cool a fire, but for extinguishment, foam or dry chemical are preferred. Avoid spreading liquid and fire by water flooding. Wear self-contained, positive pressure breathing apparatus and full firefighting protective clothing. Use water to keep containers cool.

V HAZARD RATINGS FOR HEXYL CINNAMIC ALDEHYDE

<u>NFPA</u>	<u>HEALTH</u>	1	<u>H.M.I.S.</u>	<u>HEALTH</u>	1
<u>HAZARD</u>	<u>FLAMMABILITY</u>	1	<u>RATINGS</u>	<u>FLAMMABILITY</u>	1
<u>RATING</u>	<u>REACTIVITY</u>	0	<u>(NPCA &amp; NAPIM)</u>	<u>REACTIVITY</u>	0

VI HEALTH HAZARD INFORMATION

LD50 (ORAL RAT): 3100 mg / kg

THRESHOLD LIMIT VALUE (TLV): TLV has not been established by the ACGIH.

CARCINOGEN (IARC / NTP / 29CFR): No

NOTE: Health studies have shown that exposures to chemicals pose potential health risks which may vary from person to person. Therefore any exposure to liquids, vapors, mists , or fumes should be minimized.

ACUTE HEALTH HAZARDS:

Inhalation: Inhalation of concentrated vapor may irritate the nose and throat.

Eye Contact: May cause eye irritation.

Skin Contact: May be irritating to skin.

Ingestion: May be harmful if swallowed.

CHRONIC HEALTH HAZARDS: No chronic health hazard information is available.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None

EMERGENCY FIRST AID:

Inhalation: If overcome by exposure, remove to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention.

Eye Contact: In case of eye contact, immediately irrigate with plenty of water for at least 15 minutes. Obtain emergency medical attention.

Skin Contact: Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops.

Ingestion: If swallowed do not induce vomiting. The risk of damage to the lungs exceeds the poisoning risk. Obtain emergency medical attention.

(please see page 3 for additional data)

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VII PROTECTIVE EQUIPMENT AND EXPOSURE CONTROL METHODS

Use with adequate local exhaust ventilation. In confined or enclosed spaces, use NIOSH approved respiratory protection. Use chemical resistant apron, gloves, and other impervious clothing to avoid skin contact. Use splash goggles and face shield when eye contact may occur. Provide safety shower, equipped with an eye wash fountain in the immediate vicinity of any potential exposure.

Use good personal hygiene practices. Wash hands before eating, drinking, or smoking, or using toilet facilities. Promptly remove contaminated clothing and wash thoroughly before reuse.

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VIII REACTIVITY DATA

STABILITY: Stable      HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion will produce carbon monoxide and other potentially toxic and/or poisonous vapors.

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(please see page 4 for additional data)

IX SPILL OR LEAK PROCEDURES

Remove sources of ignition, stop release, and provide adequate ventilation. Prevent flow to sewer and public waters. Recover free product, if possible. Cover spill with inert, non-combustible absorbant material and remove to disposal container. Report spill as per regulatory requirements.

Leaking drum should be emptied or placed into an oversized (recovery) drum.

X WASTE DISPOSAL

Disposal must be made in accordance with applicable governmental regulations. Do not contaminate any streams, lakes, or ponds.

XI ADDITIONAL PRECAUTIONS

Store as a NFPA Class IIIB liquid. Keep fire and sparks away from drums. Since empty containers retain product residue, do not cut, drill, grind, or weld on or near the container until it is thoroughly cleaned.

Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Remove all ignition sources. Check atmosphere for explosiveness and oxygen deficiencies. Use adequate personal protective equipment. Comply with regulations governing confined space entry.

XII OSHA / SARA TITLE III / TSCA INFORMATION

We have evaluated Hexyl Cinnamic Aldehyde using the criteria in OSHA's Hazard Communication Rule (29CFR 1910.1200). Hexyl Cinnamic Aldehyde is not considered hazardous under this OSHA standard.

Hexyl Cinnamic Aldehyde is not listed as an Extremely Hazardous Substance under Section 302 of SARA Title III.

Hexyl Cinnamic Aldehyde is not subject to the reporting requirements of Sections 311 or 312 of SARA Title III.

Hexyl Cinnamic Aldehyde does not contain ingredients (at a level of 1% or more) on the List of Toxic Chemicals in Section 313 of SARA Title III.

Hexyl Cinnamic Aldehyde is included in the current TSCA Inventory List.

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