
Emerald Kalama Emergency Phone: 1-360-673-2550

CHEMTREC: 1-800-424-9300

I. PRODUCT INFORMATION

CHEMICAL NAME: C 8 ALDEHYDE
SYNONYM: Octanal; n-Octyl Aldehyde; Aldehyde C-8; Caprylaldehyde
FAMILY: Aliphatic Aldehyde; Fatty Aldehydes
MOLECULAR FORMULA: CH₃(CH₂)₆CHO (C₈H₁₆O)
MOLECULAR WEIGHT: 128.22
CAS REG #: 124-13-0
FEMA #: 2797
EINECS #: 204-683-8

II. SUMMARY OF HAZARDS

WARNING! **FLAMMABLE**
MAY CAUSE EYE AND SKIN IRRITATION
MAY BE ABSORBED THROUGH THE SKIN
INGESTION MAY CAUSE IRRITATION
INHALATION MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT AND MUCOUS MEMBRANES

III. PHYSICAL PROPERTIES

APPEARANCE / ODOR: Colorless liquid with pungent odor; citrus-like on dilution.
BOILING POINT: 170° C (338°F) **MELTING POINT:** 12 to 15 °C
VAPOR PRESSURE: < 0.5 mm Hg @ 68°F **SOLUBILITY in WATER:** Negligible
SPECIFIC GRAVITY: 0.82 @ 77°F (H₂O = 1) **WEIGHT per GALLON:** 6.8 #
VAPOR DENSITY: 4.4 (Air = 1)

IV. FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (TCC): 130°F (54°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 CO₂, 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 fire fighting protective clothing. Use water to keep containers cool.

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V. HAZARD RATINGS FOR C8-ALDEHYDE

NFPA	HEALTH	1	HMIS	HEALTH	1
HAZARD	FLAMMABILITY	2	RATINGS	FLAMMABILITY	2
RATING	REACTIVITY	1	(NPCA & NAPIM)	REACTIVITY	1

VI. HEALTH HAZARD INFORMATION

RTECS #:	RG7780000		
LD₅₀ (Oral Rat):	5,630 mg / kg		
LD₅₀ (Dermal Rabbit):	6,350 mg / kg		
Skin Irritation Data:	skin-rabbit	500 mg / 24 H	Mild
Eye Irritation Data:	eye-rabbit	100 mg / 24 H	Mild

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

CARCINOGEN (IARC / NTP / 29CFR): No

ACUTE HEALTH HAZARDS:

Inhalation:	May cause irritation of the respiratory tract and mucous membranes.
Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation.
Ingestion:	May cause irritation.

CHRONIC HEALTH HAZARDS: Prolonged or repeated contact may irritate the skin, causing dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

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, flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Skin Contact:	In case of skin contact, remove contaminated clothing and flush skin with plenty of water. Call a physician if irritation develops. Wash clothing before reuse. Care must be taken when cleaning or disposing of these materials.
Ingestion:	If swallowed, call a physician immediately. Induce vomiting only on advice of medical personnel. Never give anything by mouth to an unconscious person.

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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.

VIII. REACTIVITY DATA

STABILITY: Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Neither pyrophoric nor reactive with water. Does not undergo explosive decomposition; is shock stable; and is not an oxygen donor. Does not form explosive mixtures with other organic materials.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLE MATERIALS: Avoid strong acids, bases, and oxidizing agents.

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

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 absorbent material and remove to disposal container. Consider sealed metal containers for disposal. 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 II 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.

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XII. OSHA / SARA TITLE III / TSCA INFORMATION

We have evaluated C-8 Aldehyde using the criteria in OSHA's Hazard Communication Rule (29CFR 1910.1200). C-8 Aldehyde is considered hazardous (due to flammability) under the OSHA standard.

C-8 Aldehyde is not listed as an Extremely Hazardous Substance under Section 302 of SARA Title III.

C-8 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.

C-8 Aldehyde is included in the current TSCA Inventory List.

XIII. DOT INFORMATION

PROPER SHIPPING NAME:	OCTYL ALDEHYDES (Aldehyde C8)
HAZARD CLASS:	3
I.D. NUMBER:	UN1191
PACKING GROUP:	III
PLACARD(S) REQUIRED:	FLAMMABLE

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