

SDS

SAFETY DATA SHEET

Oakwood Products, Inc
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Phone Numbers:

Product Information	803-739-8800
Transportation Emergency	800-451-8346
Outside the USA	760-602-8700

MATERIAL IDENTIFICATION

NAME: **Crotonaldehyde**

CAS#: [123-73-9]

CAT#: 245633

For R&D use only.

HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids (Category 2)
Acute toxicity, oral (Category 3)
Acute toxicity, dermal (Category 3)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 1)
Acute toxicity, inhalation (Category 1)
Respiratory tract irritation (Category 3)
Germ cell mutagenicity (Category 2)
Specific target organ toxicity, single exposure (Category 2)
Hazardous to the aquatic environment, acute hazard (Category 1)

GHS Label elements, including precautionary statements**Pictograms****Signal Word**

Danger

Hazard Statement(s)

H225	Highly Flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H330	Fatal if inhaled
H335	May cause respiratory irritation

H341	Suspected of causing genetic defects
H373	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

Precautionary Statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.

COMPOSITION/INFORMATION ON INGREDIENTS

Formula	: C ₄ H ₆ O
Molecular Weight	: 70.0898

CAS	Description	Concentration
123-73-9	Crotonaldehyde	95%

FIRST AID MEASURES**In case of eye contact**

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

In case of skin contact

Wash thoroughly with soap and plenty of water. Seek medical attention.

If inhaled

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

If swallowed

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product

emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

Environmental precautions

Prevent further leakage if safe to do so.

Methods and materials for containment and clean up

Absorb spills on sand or vermiculite and place in closed container for disposal.

HANDLING AND STORAGE**Precautions for safe handling**

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.
Lachrymator

Precautions for safe storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

EXPOSURE CONTROL/PERSONAL PROTECTION**Exposure Limits:**

		TWA	
Component Name (CAS)	Reference	ppm	mg/m3
Crotonaldehyde (123-73-9)	OSHA	2	6

Personal protective equipment**Eye/face protection**

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand/skin protection

Avoid all direct contact with product.
Wear chemical-resistant gloves.
Wear protective clothing and boots.
After contact with skin, wash immediately.

Respiratory protection

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odour	no data available
Odour Threshold	no data available
Melting point/Freezing Point	no data available
Boiling Point	104°C
Flash Point	9°C-closed cup
Evaporation Rate	no data available
Flammability (solid, gas)	no data available
Upper/Lower Flammability or Explosive limits	no data available
Vapour pressure	no data available
Relative Density	0.846
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Refractive Index	1.4362

STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May evolve carbon monoxide and carbon dioxide.

TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

Mouse - 240 mg/kg

Inhalation LC50

Rat - 4 h - 0.3 mg/l

Other information on acute toxicity

LD50 Subcutaneous - Rat - 140 mg/kg

Remarks: Behavioral:Excitement. Behavioral:Convulsions or effect on seizure threshold.

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye damage

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Suspected of causing genetic defects

Carcinogenicity

Suspected of causing cancer

Reproductive toxicity

no data available

STOT-single exposure

May cause respiratory irritation

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure

Aspiration hazard

no data available

Exposure Routes

Harmful to skin, eyes, and respiratory system.

May be toxic if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

DISPOSAL CONSIDERATIONS

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

TRANSPORT INFORMATION**DOT**

Crotonaldehyde

6.1, 3

UN1143 I

Inhalation Zone B

Reportable Quantity (RQ): 100 lbs

IMDG

Crotonaldehyde

6.1, 3

UN1143

Inhalation Zone B

EMS-No: F-E, S-D

Marine Pollutant: Yes

IATA

Crotonaldehyde

6.1, 3

UN1143

Inhalation Zone B

IATA Passenger: Forbidden for transport

IATA Cargo: Forbidden for transport

REGULATORY INFORMATION**SARA 302 Components**

SARA 302: The following chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302:

	CAS
Crotonaldehyde	123-73-9

SARA 313 Components

SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

New Jersey Right to Know Components

This product contains a chemical on the New Jersey Right to Know Components List.

	CAS
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California Prop. 65 Components

This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

OTHER INFORMATION

Version : 1.0

Revision Date : 5/24/2017

The above information is believed to be correct but does not purport to be all-inclusive and shall be used

only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.