

Section 1. Product and Company Identification

Product Name	Crotonic Acid		
CAS Number	3724-65-0		

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Section 2. Hazards Identification

Classification of the substance or mixture GHS Classification Serious eye damage: Category 1

GHS Label Elements Pictograms:



Signal word: DANGER

Hazard and precautionary statements Hazard statements

H318 Causes serious eye damage.

Precautionary statements

Prevention

P280 Wear protective gloves/ eye protection/ face protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Emergency Overview

Appearance: Crystalline Color: Colorless to yellowish Odor: Slightly pungent



Potential Health Effects Aggravated Medical Condition: None known. Symptoms of Overexposure: Serious eye damage

Section	3.	Com	position /	/	nf	ormation	on	Ingredients
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Common Name	Crotonic Acid			
CAS Number	3724-65-0			

Section 4. First Aid Measures

General advice: Remove soiled or soaked clothing immediately. If someone exposed to the product feels unwell, contact a doctor and show this safety data sheet. Adhere to personal protective measures when giving first aid.

Inhalation: Remove the casualty into fresh air and keep him calm. Call in a physician immediately and show him the Safety Data Sheet.

Skin contact: In case of contact with skin wash off immediately with polyethylene glycol 400, then with plenty of water. If polyethylene glycol is not available, rinse of with plenty of water. Consult a doctor if skin irritation persists.

Eye contact: Rinse immediately with gently running water for 15 minutes, maintaining eyelids open. Consult at once an ophthalmologist or a physician.

Ingestion: Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet. Let plenty of water be drunk in small gulps.

Most important symptoms and effects, both acute and delayed: Serious eye damage Notes to physician: Treat symptomatically.

Section 5. Firefighting Measures

Suitable extinguishing media: Water spray; Carbon dioxide (CO₂) Unsuitable extinguishing media: Foam

Specific hazards during firefighting: In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)

Specific extinguishing methods: Standard procedure for chemical fires. **Further information:** Fire residues and contaminated firefighting water must be disposed of in

accordance with the local regulations.

Special protective equipment for firefighters: In case of fire, wear respiratory protection

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear personal protective equipment. Unprotected persons must be kept away.



Environmental precautions: Do not allow to enter drains or waterways **Methods and materials for containment and cleaning up:** Take up mechanically. When picked up, treat material as prescribed under heading "Disposal".

Section 7. Handling and Storage

Handling

Advice on safe handling: Keep the formation and deposition of dust to a minimum. Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion: Organic products which are intentionally or unintentionally in powdered form have, in principle, the possibility of creating a dust explosion hazard. Avoid impact, friction and accumulation of electrostatic charge. Keep away from sources of ignition - refrain from smoking.

Storage

Requirements for storage areas and containers: Keep only in the original container **Further information on storage conditions:** Keep container tightly closed in a cool, wellventilated place

Advice on common storage: Do not store or transport together with foodstuffs

Section 8. Exposure Controls / Personal Protection

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

Engineering measures: See section 7; no measures in addition to the ones mentioned are necessary.

Personal protective equipment Respiratory protection: Dust mask

Hand protection Material: Rubber gloves Rate of permeability: 480 min Glove thickness: 0.6 mm

Remarks: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection: Safety glasses/face shield **Skin and body protection:** Protective clothing **Protective measures:** Do not inhale dust. Avoid contact with eyes and skin **Hygiene measures:** Do not eat or drink during work time.



Section 9. Physical and Chemical Properties

Appearance: Crystalline Color: Colorless to yellowish Odor: Slightly pungent pH: approx. 3, Concentration: 10 g/l (20°C) Melting point: > 69.5 °C Boiling point: 185 - 199.5°C Flash point: approx. 89°C Vapor pressure: 0.25 mbar (20°C) Bulk density: 543 kg/m³

Solubility(ies) Water Solubility: 94 g/l (25°C) pH: 2.3 Partition coefficient (n-Octanol/Water): log Pow: 0.85 Ignition temperature: > 400°C Thermal decomposition: from 210°C (3 K/min) Conductivity: Not determined

Section 10. Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical stability: No decomposition if stored and applied as directed.
Possibility of hazardous reactions: Reactions with strong oxidizing agents. Reactions with peroxides. Reactions with alkalis.
Conditions to avoid: Keep away from heat and sources of ignition.
Incompatible materials: Strong oxidizing agents; Bases
Hazardous decomposition products: When handled and stored appropriately, no dangerous decomposition products are known

Section 11. Toxicological Information

Acute toxicity Acute oral toxicity: LD50 rat (female): 2,610 mg/kg Acute inhalation toxicity: Not available Acute dermal toxicity: LD50 Dermal Rat, male and female: > 2,000 mg/kg

Skin corrosion/irritation Species: Rabbit Result: Slight irritant effect - does not require labelling

Serious eye damage/eye irritation Species: Rabbit



Result: Risk of serious damage to eyes.

Respiratory or skin sensitization Test Method: Local lymph node assay (LLNA) Exposure routes: Dermal Species: Mouse Result: Does not cause skin sensitization.

Germ cell mutagenicity: Not mutagenic in Ames Test Carcinogenicity: Not determined Reproductive toxicity: Not determined

STOT – single exposure: No data available **STOT – repeated exposure:** No data available **Aspiration toxicity:** No data available

Section 12. Ecological Information

Ecotoxicity Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 31 mg/l Exposure time: 96 h Test Method: Flow-through test Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): 150 mg/l Exposure time: 48 h Test Method: flow-through test Method: OECD Test Guideline 202

Toxicity to algae EC50 (Pseudokirchneriella subcapitata (algae)): 57.5 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201

Persistence and degradability

Biodegradability: Biodegradation: > 95 % Testing period: 10 d Exposure time: 10 d Method: OECD 302 B Concentration: 50 mg/l Result: Readily biodegradable (according to OECD criteria) Biodegradation: 99%



Testing period: 28 d Exposure time: 28 d Method: OECD 301 F GLP: yes

Bioaccumulative potential Bioaccumulation: No bioaccumulation is to be expected (log Pow <= 4). Partition coefficient (n-Octanol/Water): log Pow: 0.85 Method: (Q)SAR EPIWIN 4.00

Mobility in soil Distribution among environmental compartments: No data available

Other Adverse Effects Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). Additional ecological information: Avoid release into soil, rivers or drains.

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

International Regulation IATA-DGR UN/ID No.: UN 2823 Proper shipping name: Crotonic acid, solid Class: 8 Packing group: III Labels: Corrosives Packing instruction (cargo aircraft): 864 Packing instruction (passenger aircraft): 860

IMDG-Code UN number: UN 2823 Proper shipping name: CROTONIC ACID, SOLID Class: 8 Packing group: III Labels: 8 EmS Code: F-A, S-B Marine pollutant: no



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

National Regulations 49 CFR UN/ID/NA number: UN 2823 Proper shipping name: Crotonic acid, solid Class: 8 Packing group: III Labels: Corrosive ERG Code: 153 Marine pollutant: No Remarks: None known.

Section 15. Regulatory Information

OSHA Hazards: CAUSES EYE BURNS

California Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories: TSCA

Inventories: AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

HMIS Rating Health: 3 Flammability: 2 Reactivity: 0

NFPA Rating Health: 3 Flammability: 2 Reactivity: 0

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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