

Safety Data Sheet

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Oxalic Acid, Dihydrate

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Oxalic Acid, Dihydrate

Chemical Formula: C₂H₂O₄.2H₂O

CAS Number: 6153-56-6

Other Designations: Ethanedioic acid dihydrate

Emergency Telephone: (ChemTel) Contract MIS0000335; 800 255-3924; INTL 813 248-0585

General Use: THIS PRODUCT IS NOT INTENDED FOR USE IN PESTICIDES

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% Wt or % vol
Oxalic Acid, Dihydrate (Ethanedioic acid, Dihydrate)	6153-56-6	>99

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Oxalic Acid, Dihydrate	1 mg/m ³	2 mg/m ³	1 mg/m ³	none estab.	none estab.	none estab.	none estab.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: colorless or white. Danger! Corrosive. May cause kidney damage. May cause severe respiratory and digestive tract irritation with possible burns. May cause severe eye and skin irritation with possible burns. Combustible.

HMIS	
H	3
F	1
R	1
PPE [†]	
†Sec. 8	

Potential Health Effects

Primary Entry Routes: Inhalation; skin and/or eye contact

Target Organs: Kidneys, eyes, skin and mucous membranes

Acute Effects

Inhalation: May cause irritation of the upper respiratory tract with pain, burns and inflammation.

Eye: Contact with eyes may cause severe irritation, and possible eye burns.

Skin: Prolonged and/or repeated contact may cause irritation and/or dermatitis. Contact with skin causes irritation and positive burns, especially if the skin is wet or moist.

Ingestion: Cause gastrointestinal tract burns. May cause kidney damage. Cause severe pain, nausea, vomiting, diarrhea, and shock. May cause hemorrhaging of the digestive tract.

Carcinogenicity: IARC, NTP, and OSHA do not list this product as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Over exposure can cause hypocalcaemia and kidney injury

Chronic Effects: Not available.

Section 4 - First Aid Measures

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Discard contaminated clothing in a manner, which limits further exposure. Get medical aid immediately

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Treat symptomatically and supportively.

Antidote: The use of Calcium gluconate to precipitate the oxalate should be determined by only qualified Medical personnel

Oxalic acid, Dihydrate

Section 5 - Fire-Fighting Measures

Flash Point: 157 °C (314.6 °F)

Flash Point Method:

Burning Rate: NA

Autoignition Temperature: NA

LEL: NA

UEL: NA

Flammability Classification: NA

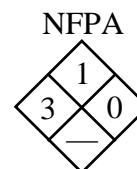
Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

Unusual Fire or Explosion Hazards: Decomposes at melting point.

Hazardous Combustion Products: NA

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, observing precautions in the protective equipment selection.

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Absorb the liquid and scrub the area with detergent and water.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Wash thoroughly after handling. Use only in a well ventilated area. Do not get on skin or in eyes. Do not ingest or inhale.

Storage Requirements: Store in tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Regulatory Requirements:

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible limits.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance and Odor: White, Odorless

Odor Threshold: N/A

Vapor Pressure: Negligible

Vapor Density (Air=1): 4.3

Formula Weight: 126.04

Density/Specific Gravity (H₂O=1, at 4 °C): 1.65

pH: 1.3 (0.1M Solution)

Water Solubility: 138 gm/L 20 deg C

Other Solubilities:

Boiling Point: NA

Freezing/Melting Point: 216 deg F sublimes

Viscosity: NA

Refractive Index: NA

Surface Tension: NA

% Volatile: NA

Evaporation Rate: Negligible

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Section 10 - Stability and Reactivity

Stability: stable under normal temperature and pressure.

Polymerization: Has not been reported.

Chemical Incompatibilities: React with furfuryl alcohol, silver, sodium chloride, and sodium hypochlorite. Contact with oxidizing materials may result in an explosive reaction

Conditions to Avoid: Incompatible materials, combustible materials, alkaline materials, strong oxidants.

Hazardous Decomposition Products: CO, CO₂

Section 11- Toxicological Information

Toxicity Data:*

Eye Effects: no data available.

Acute Inhalation Effects: no data available.

Skin Effects: no data available.

Acute Oral Effects: no data available.

Chronic Effects: no data available.

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

Mutagenicity: no data available.

Teratogenicity: no data available.

Section 12 - Ecological Information

Ecotoxicity: Shore crab LC50 = 240 mg/L/48H Chronic plant toxicity = 100 ppm

Environmental Fate: not available.

Environmental Degradation: not available.

Soil Absorption/Mobility: not available.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: Not listed as a banned from land disposal according to RCRA.

Container Cleaning and Disposal: NA

Section 14 - Transport Information

Not regulated for transportation

US DOT(49 CFR 172.101):

PSN:

Hazard Class:

UN Number:

Packing Group:

IATA

PSN:

Hazard Class:

UN Number:

Packing Group:

TDG

PSN:

Hazard Class:

UN Number:

Packing Group:

IMDG/IMO

PSN:

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal TSCA Regulations:

CAS# 6153-56-6 is not a TSCA Inventory. It is a hydrate and exempt from TSCA Inventory requirements (10CFR.3(u)(2))

Health Safety Reporting List

None of the Chemicals are on the Health & Safety reporting list

SARA Section 302 (RQ)

None of the chemicals in this material have an RQ

Section 302 (TPQ)

None of the chemicals in this material have a TPQ

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Section 313

None of the chemicals reportable under Section 313

Clean Air Act

This Material does not contain any Hazardous air pollutants

This Material does not contain any Class 1 Ozone depletors

This Material does not contain any Class 2 Ozone depletors

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substance under the CWA

None of the chemicals in this product are listed as priority Pollutants under the CWA

None of the chemicals in this product are listed as Toxic Pollutants under the CWA

OSHA

OSHA considers none of the chemicals in this product highly hazardous

STATE

Oxalic acid Dihydrate can be found on the following state right to know lists: Pennsylvania.

California No Significant Risk Level:

None of the chemicals in this product are listed.

International Regulations

European labeling in accordance with EC Directives.

Hazard symbols: XN

CAS # 6153-56-6 is not listed on Canada's Ingredient Disclosure list.

None of the chemicals in this product are listed on the DSL/NDSL list. This product has a WHMIS classification of D1B, E.

Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall WEGO be liable for any claims, losses, or damage of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if WEGO has been advised of the possibility of such damages.