Safety Data Sheet

Revision: 2/9/2021 **Ethanedioic acid dihydrate**

Section 1 - Chemical Product and Company Identification

Glentronics, Inc
645 Heathrow Drive, Lincolnshire, IL 60069
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stopflooding.com

Product/Chemical Name: **Oxalic Acid, Dihydrate**
Chemical Formula: $C_2H_2O_4.2H_2O$
CAS Number: 6153-56-6
Other Designations: Ethanedioic acid dihydrate
Emergency Telephone: CHEMTREC 1-703-527-3887 (International); 1-800-424-9300 (North America)
General Use: **THIS PRODUCT IS NOT INTENDED FOR USE IN PESTICIDES**

Section 2 - Hazards Identification

HMIS	
H	2
F	0
R	0
PPE†	
†Sec. 8	

Potential Health Effects

Primary Entry Routes: Inhalation; skin and/or eye contact
Target Organs: Kidneys, eyes, skin and mucous membranes
HAZARDS IDENTIFICATION
Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 4), H312
Serious eye damage (Category 1), H318
GHS Label elements, including precautionary statements
Pictogram

Signal word Danger

Hazard statement(s)
H302 + H312 Harmful if swallowed or in contact with skin
H318 Causes serious eye damage.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves/ protective clothing.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC) or not covered by GHS - none
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, OSHA and Prop 65 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 3 - Composition / Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
6153-56-6	Oxalic Acid, Dihydrate (Ethanedioic acid, Dihydrate)	100%	205-634-3

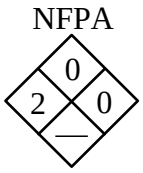
Appearance/General Info:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Oxalic Acid, Dihydrate (Ethanedioic acid, Dihydrate)	1 mg/m^3	2 mg/m^3	None listed

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

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 (H_2O=1, at 4 °C): 1.65
pH: 1.3 (0.1M Solution)

Water Solubility: 138 gm/L 20 °C
Other Solubilities:
Boiling Point: NA
Freezing/Melting Point: 216 °F sublimes
Viscosity: NA
Refractive Index: NA
Surface Tension: NA
% Volatile: NA
Evaporation Rate: Negligible

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, CO_2

Section 11- Toxicological Information

Toxicity Data:*

Acute toxicity
LD50 Oral - Rat - 1,080 mg/kg
Inhalation: No data available
Skin corrosion/irritation
Skin – Rabbit -Result: Mild skin irritation
Serious eye damage/eye irritation
Eyes – Rabbit-Result: Risk of serious damage to eyes.
Respiratory or skin sensitization ; 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

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 Glentronics, Inc. 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 Glentronics, Inc. has been advised of the possibility of such damages.