



PRODUCT SAFETY DATA SHEET

GHS COMPLIANT

Oxalic Acid, Tech Solid

Section 1 – Product and Company Information

GHS Product Identification

Product Name: Oxalic Acid, Tech Solid

Other Identification Information

CAS Number: 144-62-7

Florida Chemical ID: 2AC009T996S.055

Chemical Formula: C₂H₂O₄

Synonyms: Ethanedioic Acid; Oxalic Acid (aqueous); Oxalic acid dihydrate

Recommended Use and Restrictions on Use

Description and Uses: Reducing agent; Chelating agent for metal cations; Rust removal; lanthanide chemistry; Metallurgy; Wood bleaching agent; pH adjustment; water conditioning. Not intended for use in pesticides.

Supplier Information

Company Name/Address: Florida Chemical Supply, Inc.
6810 East Chelsea Street
Tampa, FL 33610

Phone (Non-Emergency) 813.623.1274

Emergency Phone Number

24 Hour Emergency Phone: 800.255.3924 (Chemtel)



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Section 2 – Hazard Information

Classification of the Substance or Mixture

Acute Toxicity - Oral 4
Acute Toxicity - Dermal 4
Eye Damage/Irritation 1

GHS Label Elements

GHS Pictogram:



Signal Word:

DANGER

Hazard Statements:

H302+ H312: Harmful if swallowed or in contact with skin
H319: Causes serious eye irritation

Precautionary Statements:

P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312 + P330: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312 IF ON SKIN: Wash with soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P330: Rinse mouth
P363: Wash contaminated clothing before reuse

Other Hazards Not Resulting In Classification

HMIS:



Health	2
Flammability	0
Reactivity	0
Personal Protection	C

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Special Medical Response: In case of exposure, consult with a physician. Show this safety data sheet to the doctor in attendance.

Section 3 – Hazardous Composition

Component	CAS #	Wt. %
Oxalic Acid	144-62-7	100%

Section 4 – First Aid Information

Necessary First Aid Measures

- Skin Exposure:** Wash skin with soap and water. If irritations persists. seek medical attention.
- Eye Exposure:** Flush eyes with water for fifteen minutes. Remove contact lenses if easy to do. Cold water may be used. if irritation persists get immediate medical attention.
- Inhalation Exposure:** Remove to fresh air. If breathing is difficult, seek medical attention
- Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth with clean water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Most Important Symptoms Acute and Delayed

Acute Effects: See Section 11 below.

Delayed Effects: None known

Immediate Medical Attention or Special Treatment Requirements



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NOTE TO PHYSICIAN: Possible mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 – Firefighting Precautions

Suitable Extinguishing Media:

Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO₂).

Specific Fire Hazards Arising from the Chemical:

None known or expected.

Special Protective Measures for Firefighters

PPE for Firefighter: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Personal Precautions: See Section 8 for personal protection requirements. Proper PPE is required for all accidental release response. Ensure adequate ventilation

PPE Requirements: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Precautionary Measures: Keep non-emergency personnel away.

SECTION 6 – Accidental Release Measures

For Non-Emergency Personnel

All untrained, non-essential, and non-responding personnel should be evacuated from the immediate area of the spill without delay. If Personal Protective Equipment is necessary to achieve evacuation safely, see Section 8 for requirements.

For Emergency / Response Personnel

Protective Equipment: See Section 8 for personal protection requirements. Proper PPE is required for all accidental release response. Ensure adequate ventilation



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Environmental Precautions: Do not allow product to discharge into waterways, public sewers, or other water sources.

Methods and Materials for Cleanup

Small Spills: Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary, neutralize the residue with a dilute solution of sodium carbonate.

Large Spills: Corrosive solid. Stop leak if it can be done without risk. Do not get water in side containers. Do not touch spilled material. Use water spray to reduce any vapors. Dike to prevent runoff from entering waterways, sewers, or the environment. Eliminate all ignition sources. Neutralize the residue with a dilute solution of sodium carbonate. Recover as much product as possible for reuse or recycling. Place neutralized product into approved containers for later disposal.

SECTION 7 – Handling and Storage

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practices.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for Safe Storage, Including Incompatibilities

Storage: Keep container tightly closed and properly labeled. Store containers in a dry place (moisture sensitive), and store in a dry, cool, well-ventilated area.

Incompatible Materials: See Section 10 below.

Incompatible Conditions: See Section 10 below

SECTION 8 – Exposure Controls and Personal Protection

Control Parameters

Exposure Limits: Oxalic Acid: ACGIH, TLV: 1 mg/m³
Oxalic Acid: OSHA, PEL: 1 mg/m³

Appropriate Engineering Controls



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Safety shower and emergency eyewash should be located nearby and accessible to all points of product use, storage and handling. Proper ventilation at all points of use, particularly in areas where natural ventilation is insufficient, and in enclosed or confined spaces.

Individual Protection Measures

- Gloves:** Chemical resistant rubber or neoprene.
- Respiratory:** When adequate ventilation is not provided, an approved respirator must be worn. Respirator selection must be in accordance with OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, a self contained breathing apparatus is recommended.
- Eyes:** Chemical splash goggles are preferred, otherwise chemical safety glasses with side shields. Ophthalmic lens glasses are not protective eyewear, and should not be relied on to provide protection unless specifically designed as prescription safety lenses meeting all personal protection standards.
- Other Protection:** HMIS Personal Protection: C: Safety glasses, Gloves, and Synthetic apron. Standard chemical resistant clothing and workboots as specified by OSHA regulations and local workplace safety procedures.
- Industrial Hygiene:** Do not eat, drink or smoke in areas where this product is handled. After handling, be sure to wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing before re-use.

SECTION 9 – Physical Properties

Appearance:	Clear, colorless liquid	Flammability (solid/gas):	No data available
Odor:	Odorless	UEL/LEL:	No data available
Odor Threshold:	N/D	Vapor Pressure:	< 0.1 mmHg
pH:	1.3 @ 9 g/l	Vapor Density:	4.2 (Air = 1)
Melt/Freeze Point:	373 F	Relative Density:	1.90
Boiling Point/Range:	315 F	Solubility:	108 g/l in Water
Flash Point:	No data available	Partition Coefficient	
Evaporation Rate:	Clear, colorless liquid		



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(n-octanol/water): No available data
Auto Ignition Temp: 729°F

Decomposition Temp: NA
Viscosity: 42.1 mm²/s @2°C

SECTION 10 – Stability and Reactivity

Reactivity: Reacts with hypochlorites to form explosive compounds that are sensitive to pressure and temperature increases.

Stability: Stable under normal conditions. See section 7 for details

Conditions to Avoid: Keep away from heat, incompatible materials, dust generation

Incompatible Materials: Keep away from oxidizers, metals, alkalis

Decomposition Products: Carbon oxides. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide, and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

Hazardous Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

SECTION 11 – Toxicological Information

Acute Toxicity: Eye contact may result in inflammation, including redness, watering, itching, corneal damage, blindness. Skin contact may produce inflammation and blistering. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Harmful if swallowed. Causes severe digestive tract irritation and possible burns.

Chronic: None known.

Eyes: Not available

Skin: LD50, Rabbit: 20,000 mg/kg



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Sensitization:	Exposure to asthmatic, atopic and sulfite sensitive individuals may result in severe bronchoconstriction and reduced levels in forced expiratory volume.
Mutagenicity:	There is no data available.
Carcinogenicity:	There is no data available.
Reproductive Toxicity:	Product & the components: No relevant data found
Target Organs:	Eyes, lungs.
Aspiration Hazard:	No data available.

SECTION 12 – Ecological Toxicity

Fish:	Static Test, LC50 - <i>Leucis idus melanotus</i> : 160 mg/l - 48 h.
Daphnia:	No data available.
Algae:	No data available.

SECTION 13 – Disposal Considerations

Dispose in accordance with local, state and federal environmental regulations. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14 – Transportation Information

US DOT/ IATA/ TDG/ IMDG/IMO

UN Number:	NA
Proper Shipping Name:	Not Regulated
Packing Group:	NA
Hazard Class:	NA
Subsidiary Hazards:	NA
Required DOT Label/s:	DOT Not Regulated

SECTION 15 – Regulatory Information

TSCA:	This product and/or all of its components are listed on the Section 8(b) TSCA Inventory.
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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 depletory

This Material does not contain any Class 2 Ozone depletory

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



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SECTION 16 – Other Information

Date Prepared: 4/23/2015
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Prepared By: Florida Chemical Regulatory Department
Approved By: Marc Maseman

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