

Safety Data Sheet (SDS)

Section 1: Identification

Product identifier: Oxalic Etching Solution

Other name(s): GE Class A

Item number(s): 194

Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet:

ES Laboratory, LLC

2041 E. Gladstone St. Unit N Glendora, CA 91740 USA

Tel: 626-208-9011

Emergency telephone number:

CHEMTREC®

Domestic: 800-424-9300

International: 703-527-3887

Section 2: Hazard(s) Identification

Hazardous classification of the substance or mixture:

Hazard Class	Category code
Skin Corrosion	1C
Serious Eye Damage	1
Acute Toxicity (oral)	4
Acute Toxicity (dermal)	4

Signal word: Danger

Pictogram:



Hazard statement(s):

H314 Cause severe skin burn and eye damage.
H302+H312 Harmful if swallowed or in contact with skin.

Precautionary statement(s):

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Response statement(s):

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P330+P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.

Storage statement(s):

P405 Store locked up.

Disposal statement(s):

P501 Dispose of contents/container to an approved waste disposal plant.

Hazard(s) not otherwise classified: No information.

Label elements: See tables above

HMIS Ratings:

Health: 3
Flammability: 0
Reactivity: 1

NFPA Ratings:

Health: 3
Flammability: 0
Reactivity: 1
Special hazard: None

Section 3: Composition/Information on Ingredients

Component	CAS No.	Concentration
Oxalic acid, dihydrate	6153-56-6	Approx. 10%

Any concentration shown as a range is to protect the confidentiality or is due to batch variation. Only hazardous components are shown.

Section 4: First-Aid Measures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical aid immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately.

Skin contact: Wash the areas of contact with water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately.

Ingestion: Do not induce vomiting. Rinse mouth. Get medical aid immediately.

Most important symptoms and effects, both acute and delayed: No information.

Recommendation for immediate medical care and special treatment needed, when necessary: No information.

Section 5: Fire-Fighting Measures

Extinguishing media: Product is not flammable. Use firefighting measures that suit the surrounding fire.

Special hazards arising from the substance or mixture: In the case of fire, the following can be released: carbon monoxide and carbon dioxide.

Special protective equipment or precautions for firefighters: Wear full protective clothing and self-contained respirator.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions: Do not allow the material to be released to the environment without proper government permits.

Methods and materials for containment and cleaning up: Absorb with a liquid binding material (sand, diatomite, acid binder, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

Section 7: Handling and Storage

Precautions for safe handling: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation in the workplace.

Condition for safe storage: Keep container tightly sealed. Store in an approved corrosive liquid storage container/area.

Incompatibilities: Strong bases and oxidizing agents.

Specific storage requirement(s): No information.

Section 8: Exposure Controls/Personal Protection

Exposure Limits

Component	CAS No.	ACGIH TLV	OSHA PEL
Oxalic acid, dihydrate	6153-56-6	TWA 1 mg/m3 STEL 2 mg/m3	TWA 1 mg/m3

Engineering controls: Use general and/or local exhaust ventilation to control the vapor concentration.

Eye protection: Wear safety glasses or goggles.

Skin protection: Wear protective clothing and chemical resistant gloves.

Respiratory protection: Use self-contained respiratory device in an emergency situation.

Section 9: Physical and Chemical Properties

Appearance:

Colorless liquid

UFL/LEL:

Not determined

LFL/LEL:

Not determined

Odor:	Odorless
Vapor pressure:	17 mm Hg at 20°C
Odor threshold:	Not determined
Vapor density:	Not determined
pH:	Not determined
Relative density:	Not determined
Melting Point/Freezing point:	Not determined
Solubility in water:	Fully miscible
Boiling point/boiling range:	Not determined
Flash point:	Not determined
Evaporation Rate:	Not determined
Flammability (solid, gas):	Not applicable
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Product is not self-igniting.
Decomposition temperature:	Not determined
Viscosity:	Not determined

D.O.T. shipping name: Corrosive liquid, acidic, organic, n.o.s. (oxalic acid)
D.O.T. hazard class: 8
UN number: UN3265
Packing group: III

Section 15: Regulatory Information

Not meant to be all inclusive, selected regulation represented

OSHA status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA status: No information

Section 16: Other Information

Disclaimer: The information above is believed to be accurate and represents the best information currently available to us. ES Laboratory, LLC makes no warranty, express or implied, as to its accuracy, 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. We shall not be liable for any damages to person or property resulting from its use.

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Section 10: Stability and Reactivity

Reactivity: No information.

Chemical stability: Stable under recommended storage conditions.

Stabilizer(s): Not required.

Safety issues that may arise should the product change in appearance: No information.

Thermal decomposition/ conditions to Avoid: Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions: see incompatibilities.

Incompatibilities: Bases, oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

Section 11: Toxicological Information

Acute Toxicity:

No information on LD/LC50 values.

Other exposure effect:

Oral: Swallow will lead to strong corrosive effect.

Harmful if swallowed.

Inhalation: No Information.

On the Skin: Harmful in contact with skin. Danger through skin absorption.

On the Eye: Cause eye damage.

Sensitization: No information.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from NTP, IARC or OSHA.

Section 12: Ecological Information

Toxicity:

Aquatic toxicity: No information.

Persistence and degradability: No information.

Behavior in environmental system:

Bioaccumulative potential: No information.

Mobility in soil: No information.

Additional ecological information: Avoid transfer into the environment.

Other adverse effects: No information.

Section 13: Disposal Considerations

Place in a chemical waste container for proper disposal in an approved waste disposal facility. Dispose of the content and container in accordance with local, regional, national, international regulations.

Section 14: Transport Information