SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name:	Oxalic Acid 99.6% Dihydrate
CAS number:	6153-56-6
Synonyms:	No data available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses : Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC
22111 Highway 71 West, Suite 601
Spicewood, Texas 78669
U.S.A.

Telephone : 512-668-9918
Fax : 512-886-4008

1.4 Emergency telephone

Emergency Phone # : US & Canada: 1-800-535-5053 INFOTRAC
International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity - Oral (Category 4)
Serious eye damage (Category 1)

2.2 GHS Label elements, including precautionary statements

Pictogram:

Signal Word: **Danger**

Hazard statement(s): Harmful if swallowed. Causes serious eye damage.

Precautionary statement(s): **Prevention** - Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. **Response** - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. 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/doctor. Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified

None known.

SECTION 3: Composition/information on ingredients

3.1 Components

Ingredient	CAS Number	Percent	Hazardous Chemical
Oxalic acid (dihydrate)	6153-56-6	80-100% (by weight)	No

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In case of eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Take victim immediately to hospital.

In case of skin contact: Remove contaminated clothing and shoes. Wash off with soap and plenty of water. If skin irritation persists, call a physician.

In case of ingestion: Keep respiratory tract clear. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable (and unsuitable) extinguishing media

Water spray, foam, dry powder, carbon dioxide (CO2). A high volume water jet is unsuitable.

5.2 Specific hazards arising from the substance or mixture

Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

5.4 Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing dust.

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Neutralize with chalk, alkali solution or ammonia. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see Section 13. Refer to section 8 of SDS for personal protection details.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Hygiene measures

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Electrical installations/working materials must comply with the technological safety standards.

SECTION 8. Exposure controls/personal protection

8.1 Occupational exposure limits

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
6153-56-6	Oxalic acid (dihydrate)	TWA	1 mg/m3	CA AB OEL
		STEL	2 mg/m3	CA AB OEL
		TWAEV	1 mg/m3	CA QC OEL
		STEV	2 mg/m3	CA QC OEL

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Personal protective equipment

Eye/face protection

Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection

Dust impervious protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

No personal respiratory protective equipment normally required. In the case of vapor formation use a respirator with an approved filter.

Control of environmental exposure

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Solid.
Appearance	Crystalline.
Odor	Not available.
Odor Thresh	Not available.
pH	1.3 @ 20 - 25 °C (68 - 77 °F)
Melting Point/Range	101.5 °C (214.7 °F)
Boiling Point/Range	149 - 160 °C (300 - 320 °F)
Flash Point	Not applicable.
Evaporation Rate	Not available.
Flammability (solid, gas)	Not available.
Flammability or explosive limit	

Upper	: NA
Lower	: NA

Vapor Pressure	Not available.
Vapor Density	Not available.
Density	Not available.
Solubility	Not available.
Partition coefficient; n-octanol/water	Not available.
Autoignition Temp	Not available.
Decomposition Temp	Not available.
Viscosity	Not available.
Molecular Formula	$C_2H_2O_4 \cdot 2H_2O$
Molecular Weight	126.07 g/mol
VOC Content(%)	Not available.
Oxidizing properties	None.

9.2 Other safety information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No decomposition if stored and applied as directed. Dust may form explosive mixture in air.

10.4 Conditions to avoid

Keep away from heat, flame, sparks and other ignition sources.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:
Acute oral toxicity: Acute toxicity estimate: 750 mg/kg.
Acute dermal toxicity: Assessment: The substance or mixture has no acute dermal toxicity.

Components:
Acute oral toxicity: LD50 (Rat): 375 mg/kg. Assessment: The component/mixture is moderately toxic after single ingestion.
Acute dermal toxicity: Assessment: The component/mixture is moderately toxic after single contact with skin.

Skin corrosion/irritation

No skin irritation.

Serious eye damage/eye irritation

Irreversible effects on the eye.

Respiratory or skin sensitization

None.

Germ cell mutagenicity

No data available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Oxalic acid dihydrate	6153-56-6	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Chronic effects

No data available.

11.2 Additional information

Effects due to ingestion may include:, Nausea, Vomiting, Local irritation Inhalation may provoke the following symptoms:, Cough, Shortness of breath. Kidney injury may occur., Cardiovascular effects. Systemic effects: After absorption: agitation, spasms, Nausea, Vomiting, Circulatory collapse, disturbed electrolyte balance. Secondary products cause: Damage to: Kidney. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. Stomach - Irregularities - Based on Human Evidence

SECTION 12. Ecological information

12.1 Toxicity

Ecotoxicity:

Toxicity to fish	static test LC50 - Leuciscus idus (Golden orfe) - 160 mg/l - 48 h Remarks: (IUCLID) The value is given in analogy to the following substances: Oxalic acid
Toxicity to daphnia and other aquatic invertebrates	- Daphnia magna (Water flea) - 162.2 mg/l - 48 h (OECD Test Guideline 202) Remarks: The value is given in analogy to the following substances: Oxalic acid

12.2 Persistence and Degradability

Biodegradability	aerobic - Exposure time 20 d Result: 89 % - Readily biodegradable. Remarks: (ECHA) The value is given in analogy to the following substances: Oxalic acid

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

13.1 Waste Disposal Methods

Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated Packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

DOT	Not regulated as a dangerous good.
TDG	Not regulated as a dangerous good.
IATA	Not regulated as a dangerous good.
IMDG/IMO	Not regulated as a dangerous good.

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Oxalic acid dihydrate	6153-56-6	1993-02-16

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Oxalic acid dihydrate	6153-56-6	1993-02-16

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

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

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

SECTION 16: Other information

Issue Date	05/05/2023
Revision Date	09/11/2023

Disclaimer:
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.