

# SAFETY DATA SHEET

Date Printed: 05/18/2024

Date Revised: 01/15/2022

---

## SECTION 1. IDENTIFICATION

**Product Identifier:** (4N) 99.99% Lithium Oxalate

**Product Code:** LI-OXL-04

**CAS Number:** 553-91-3

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

---

## SECTION 2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Signal Word: Warning

Hazard Statements:

Harmful if swallowed

Harmful in contact with skin



Precautionary Statements

Prevention:

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Skin:

IF ON SKIN: Wash with plenty of soap and water  
Call a POISON CENTER or doctor/physician if you feel unwell  
Wash contaminated clothing before reuse

Ingestion:  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

Disposal:  
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)  
None identified

---

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component: Ethanedioic acid, dilithium salt

CAS-No: 553-91-3

Weight: <100%

---

### **SECTION 4. FIRST AID MEASURES**

General Advice:  
If symptoms persist, call a physician.

Eye Contact:  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact:  
Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation:  
Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion:  
Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects:  
None reasonably foreseeable.

Notes to Physician:  
Treat symptomatically

---

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media:

Carbon dioxide (CO<sub>2</sub>). Dry powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

Unsuitable Extinguishing Media: No information available

Flash Point: No information available

Method - No information available

Autoignition Temperature: No information available

Explosion Limits

Upper: No data available

Lower: No data available

Sensitivity to Mechanical Impact: No information available

Sensitivity to Static Discharge: No information available

Specific Hazards Arising from the Chemical:

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products:

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Lithium oxide

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health

2

Flammability

1

Instability

Physical hazards

-

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions:

Should not be released into the environment. See Section 12 for additional ecological information. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

---

## SECTION 7. HANDLING AND STORAGE

Handling:

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on

clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place.

---

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures:

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection:

Long sleeved clothing.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

---

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid Crystalline

Appearance: No information available

Odor: No information available

Odor Threshold: No information available

pH: No information available

Melting Point/Range: No data available

Boiling Point/Range: No information available

Flash Point: No information available

Evaporation Rate: Not applicable

Flammability (solid,gas): No information available

Flammability or explosive limits

Upper: No data available

Lower: No data available

Vapor Pressure: No information available

Vapor Density: Not applicable

Specific Gravity: 2.12 g/cm<sup>3</sup>

Solubility: No information available

Partition coefficient; n-octanol/water: No data available

Autoignition Temperature: No information available

Decomposition Temperature: No information available

Viscosity: Not applicable  
Molecular Formula: Li<sub>2</sub> C<sub>2</sub> O<sub>4</sub>  
Molecular Weight: 101.96

---

## SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard:  
None known, based on information available

Stability:  
Stable under normal conditions.

Conditions to Avoid:  
Incompatible products.

Incompatible Materials:  
Oxidizing agents

Hazardous Decomposition Products:  
Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Lithium oxide

Hazardous Polymerization:  
Hazardous polymerization does not occur.

Hazardous Reactions:  
None under normal processing.

---

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity  
Product Information:  
Component Information:  
Toxicologically Synergistic Products: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation:  
No information available

Sensitization:  
No information available

Carcinogenicity:  
Component: Ethanedioic acid, dilithium salt  
CAS-No: 553-91-3  
IARC: Not listed  
NTP: Not listed  
ACGIH: Not listed  
OSHA: Not listed  
Mexico: Not listed

Mutagenic Effects: No information available

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard: No information available

Symptoms / effects, both acute and delayed: No information available

Endocrine Disruptor Information: No information available

Other Adverse Effects: The toxicological properties have not been fully investigated

---

## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability:

Insoluble in water May persist

Bioaccumulation/ Accumulation:

No information available.

Mobility:

Is not likely mobile in the environment due its low water solubility

---

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

---

## **SECTION 14. TRANSPORT INFORMATION**

DOT

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S. Proper technical name (Lithium oxalate)

Hazard Class 6.1

Packing Group III

TDG

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S. Hazard Class 6.1

Packing Group III

IATA

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S. Hazard Class 6.1

Packing Group III

IMDG/IMO

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S. Hazard Class 6.1

Packing Group III

---

## SECTION 15. REGULATORY INFORMATION

Component: Ethanedioic acid, dilithium salt

TSCA: X

DSL: -

NDSL: X

EINECS: 209-054-1

ELINCS: -

NLP:

PICCS: X

ENCS: X

AICS: -

IECSC: X

KECL: X

U.S. Federal Regulations

TSCA 12(b): Not applicable

SARA 313: Not applicable

SARA 311/312 Hazard Categories: See section 2 for more information

CWA (Clean Water Act): Not applicable

Clean Air Act: Not applicable

OSHA Occupational Safety and Health Administration: Not applicable

CERCLA: Not applicable

California Proposition 65: This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations: Not applicable

U.S. Department of Transportation:

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security:

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

---

## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is

believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.