

Lithium L-Lactate		Pricing >
Linear Formula	C ₅ H ₉ LiO ₅	
Pubchem CID	23687877	
MDL Number	MFCD00065512	
EC No.	248-692-5	
IUPAC Name	lithium; 2-hydroxypropanoate	
Beilstein/Reaxys No.	6127244	
SMILES	[Li+].[O-]C(=O)C(O)C	
InchI Identifier	InChI=1S/C3H6O3.Li/c1-2(4)3(5)6;/h2,4H,1H3,(H,5,6);/q;+1/p-1	
InchI Key	GKQWYZBANWAFMQ-UHFFFAOYSA-M	
Signal Word	N/A	
Hazard Statements	N/A	
Hazard Codes	N/A	
Risk Codes	N/A	
Safety Statements	N/A	
Transport Information	N/A	
WGK Germany	3	

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SAFETY DATA SHEET

Date Accessed: 04/29/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #27848-80-2

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:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal word Not classified³

Hazard statements

Symbols/Pictograms Not classified

Precautionary Statements - Prevention Wash hands thoroughly after handling

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC) N/A

Other Information

Other hazards

NFPA

Health hazards 0

Flammability 0

Stability 0

Physical and chemical properties - HMIS

Health hazards 0

Flammability 0

Physical hazards 0

Personal protection -

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 27848-80-2

Molecular Weight 96.01

Formula C₃H₅LiO₃

Chemical Name CAS No weight-% Oral LD₅₀ dermal LD₅₀ Inhalation LC₅₀

Lithium L-lactate 27848-80-2 >98 - - -

SECTION 4. FIRST AID MEASURES

First Aid Measures

General advice Consult a physician if necessary.

Remove to fresh air.

Eye contact Wash with plenty of water.

Skin Contact Wash skin with soap and water.

Inhalation Remove to fresh air. If breathing is difficult,

give oxygen. If not breathing, give artificial respiration.
Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.
Most important symptoms and effects, both acute and delayed
Symptoms No data available.
Indication of any immediate medical attention and special treatment needed
Note to physicians Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media
Suitable Extinguishing Media In case of fire: Use CO₂, dry chemical, or foam for extinction.
Unsuitable Extinguishing Media Contact with water liberates toxic, highly flammable gas. DO NOT USE WATER.
Specific hazards arising from the chemical
Specific hazards arising from the chemical
Highly flammable.
Hazardous combustion products Carbon oxides.
Explosion data
Sensitivity to Mechanical Impact No data available.
Sensitivity to Static Discharge No data available.
Protective equipment and precautions for firefighters
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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions Ensure adequate ventilation, especially in confined areas.
Environmental precautions
Environmental precautions See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up
Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Contact with water liberates toxic, highly flammable gas.

Conditions for safe storage, including any incompatibilities Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store at 4 °C.

Incompatible materials None known based on information supplied.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations.

Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance powder
Odor Odorless
Property Values
pH No data available
Melting point/freezing point 253 °C
Boiling point 200 °C
Flash point No data available
Density No data available
Evaporation rate No data available
Upper flammability limits No data available
Lower flammability limit No data available
Vapor pressure 1
Vapor density 1
Specific gravity No data available
Water solubility No data available
Solubility in other solvents No data available
Partition coefficient No data available
Autoignition temperature No data available
Decomposition temperature No data available
Kinematic viscosity No data available
Explosive properties No data available
Oxidizing properties No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity N/A
Chemical stability Stable under recommended storage conditions.
Possibility of Hazardous Reactions Contact with water liberates toxic, highly flammable gas.
Hazardous polymerization No data available.
Conditions to avoid Extremes of temperature and direct sunlight.
Incompatible materials Strong oxidizing agents.
Hazardous Decomposition Products Carbon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation No data available.
Eye contact No data available.
Skin Contact No data available.
Ingestion No data available.
Information on toxicological effects
Symptoms No data available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity No data available.
Numerical measures of toxicity - Product Information
Unknown acute toxicity No data available

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 2500 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life

100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability No data available.

Bioaccumulation No data available.

Mobility No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

SECTION 14. TRANSPORT INFORMATION

DOT Not regulated

IMDG Not regulated

IATA Not regulated

SECTION 15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists

Europe (EINECS/ELINCS/NLP) Australia (AICS)

Philippines (PICCS)

Chemical Name TSCA DSL NDSL EINECS ELINCS

ENCS IECSC KECL PICCS AICS

Lithium L-lactate - - - X - - - X X

X - Listed

TSCA - United States Toxic Substances Control Act
Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances
List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing
Chemical Substances/European List of Notified
Chemical Substances

ENCS - Japan Existing and New Chemical

Substances
IECSC - China Inventory of Existing Chemical
Substances
KECL - Korean Existing and Evaluated Chemical
Substances
PICCS - Philippines Inventory of Chemicals and
Chemical Substances
US Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments
and Reauthorization Act of 1986 (SARA). This product
does not contain any
chemicals which are subject to the reporting
requirements of the Act and Title 40 of the Code of
Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No
CWA (Clean Water Act)
This product does not contain any substances
regulated as pollutants pursuant to the Clean Water
Act (40 CFR 122.21 and 40
CFR 122.42).
US State Regulations
California Proposition 65
This product does not contain any Proposition 65
chemicals.
U.S. State Right-to-Know Regulations
This product does not contain any substances
regulated by state right-to-know regulations

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.
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