

Material Safety Data Sheet



Lithium, Metal

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Carolina Biological Supply Company

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CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Lithium Metal Rods

Product Code(s): 87-2540

Size: 2.5 g

Chemical Name: Lithium Metal Rods

CAS Number: 7439-93-2

Formula: Li

Synonyms: Alkali Metal

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: **DANGER** - Flammable. Reacts violently with water. Causes severe burns. Irritating to eyes, respiratory system and skin. Wear suitable protective clothing, gloves and eye/face protection. Risk of serious damage to eyes.

Potential Health Effects:

Eyes: Causes severe burns and eye damage upon direct contact. Vapor is irritating.

Skin: May cause severe irritation or chemical burns.

Ingestion: May severely irritate or damage digestive tract.

Inhalation: May severely irritate or damage mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Lithium Metal Rods (CAS # 7439-93-2) 99%; Holding Fluid: Mineral Oil (CAS # 8042-47-5)

TLV units: N/A

PEL units: N/A

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel.

Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): 871 °C

NFPA Rating:

Health: 3

Fire: 2

Reactivity: 2

Extinguisher Media: Dry lithium chloride, graphite powder, Pyrene G-1, dry sodium chloride, dry (anhydrous) calcium oxide.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: 179 °C

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Contact with water liberates extremely flammable gases.
Fire or excessive heat may produce hazardous decomposition products.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Readily absorbs moisture from air.

Reacts violently with water.

Keep away from oxidizing materials and strong acids.

Avoid contact with skin and eyes. Keep only in the original container in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer).

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 6.941

Boiling Point: 1317.0 °C

Vapor Density(Air=1): N/A

Percent Volatile by Volume: N/A

Solubility in Water: Reacts violently with water, liberating extremely flammable gases. **Appearance and Odor:** Silvery colored metal, odorless.

Melting Point: 180.5 °C

Vapor Pressure: N/A

Specific Gravity (H2O=1): 0.534 at 25 °C

Evaporation Rate (BuAc=1): N/A

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Water; Product is water reactive.
Heat and sources of ignition.

Incompatibility (Materials to Avoid): Water, Acids, Oxidizers,

Hazardous Decomposition Products: Hydrogen Gas, Metal Fumes,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: N/A

Effects of Overexposure:

Acute: See Section 2

Chronic: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1415,

LITHIUM

Division 4.3

P.G. I

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:

N/A

Chemical Category:

N/A

CERCLA Section 103 RQ(lb.): N/A

RCRA Section 261.33: N/A

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the

applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act