### Lithium, Metal



## Section 1 Product Description

Product Name: Lithium, Metal

Recommended Use: Science education applications

Synonyms: Alkali Metal

**Distributor:** Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER** 





In contact with water releases flammable gases which may ignite spontaneously. Causes severe skin burns and eye damage. Causes serious eye damage.

#### **GHS Classification:**

Substance or mixture which in contact with water emits flammable gas Category 1, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1

# Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Lithium, Metal
 7439-93-2
 100

Mineral Oil Holding Fluid (CAS # 7439-93-2)

### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

**Skin Contact:** Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. IF ON SKIN (or hair):

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash

contaminated clothing before reuse.

**Ingestion:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Dry lithium chloride, graphite powder, Pyrene G-1, dry sodium chloride, dry (anhydrous)

calcium oxide.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Contact with water liberates extremely flammable gases. Fire or excessive heat may

produce hazardous decomposition products.

Hazardous Combustion Products: Metal Oxides,

Lithium, Metal Page 1 of 4

### Section 6

### Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Avoid contact with material. Avoid breathing dust/fume/gas/mist/vapors/spray.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### Section 7

### Handling and Storage

Handling: Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle

> under inert gas. Protect from moisture. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Readily absorbs moisture from air. Reacts violently with water. Keep away from oxidizing materials and strong acids. Avoid contact with

skin and eyes.

Store in a dry place. Store in a closed container. Store locked up. Keep only in the original container in a cool, Storage:

well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer).

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

### Section 8

### Protection Information

**OSHA PEL ACGIH** 

**Chemical Name** (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

**Control Parameters** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

Lab coat, apron, eye wash, safety shower.

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

**Respiratory Protection:** 

No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Nitrile Gloves:

### Section 9

### **Physical Data**

Formula: Li

Molecular Weight: 6.941 Appearance: Silver Solid Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting Point: 185 C **Boiling Point: 1342 C** Flash Point: 871 C

Flammable Limits in Air: N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 0.534 at 25 °C

Solubility in Water: Reacts violently with water, liberating

extremely flammable gases.

Log Pow (calculated): No data available **Autoignition Temperature: 179 C** 

**Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: N/A

### Section 10

#### Reactivity Data

Reactivity: No data available

**Chemical Stability:** Stable under normal conditions. Can react violently with water.

Page 2 of 4 Lithium, Metal

Conditions to Avoid: Exposure to moisture

Incompatible Materials: Acids, Chlorinated compounds, Iron Salts, Moisture, Metals, Heavy Metals,, Sulfur,,

Phosphorus compounds,, Nitrogen compounds,

Hazardous Decomposition Products: Metal Oxides, Hazardous Polymerization: Will not occur

# Section 11 Toxicity Data

Routes of Entry N/A Symptoms (Acute): N/A

**Delayed Effects:** No data available

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50No data available7439-93-2Not determinedNot determinedNot determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available7439-93-2Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

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

evaluated.

### Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

N/A 7439-93-2

# Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

## Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1415, LITHIUM Division 4.3 P.G. I UN number: 1415 Class: 4.3 Packing group: I Proper shipping name: Lithium IATA Passenger: Not permitted for transport

# Section 15 Regulatory Information

**TSCA Status:**A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

Lithium, Metal Page 3 of 4

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	7439-93-2	No	No	No	No	No

# Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

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.

Glossary	,
----------	---

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

Lithium, Metal Page 4 of 4