

## XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Lithium metal

1. Product and	Company	Identification
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Trade Name: Lithium Chemical Formula: Li

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger





Hazard Statements: H260: In contact with water releases flammable gases which may ignite

spontaneously

H314: Causes severe skin burns and eye damage

Precautionary Statements: P231+P232: Handle under inert gas. Protect from moisture

P261 Avoid breathing dust/fume/vapor

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 3 Physical: 3

3. Composition

Chemical Family: Alkali Metal

Additional Names: None

Lithium (Li):

Percentage: 100 wt% CAS #: 7439-93-2 EC #: 231-102-5

	4. First Aid Procedures			
General Treatment:	Seek medical attention if symptoms persist.			
Special Treatment:	None			
Important Symptoms:	Causes severe skin burns.			
	Causes severe eye damage.			
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.			
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.			
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.			
Eyes:	Flush eyes with water, blinking often for several minutes. Remove			
·	contact lenses if present and easy to do. Continue rinsing			
	5. Firefighting Measures			
Flammability:	Highly flammable			
	Contact with water releases flammable gas			
Extinguishing Media:	Do not use water for metal fires – use CO <sub>2</sub> , sand, extinguishing powder			
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.			
	6. Accidental Release Measures			
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.			
Environmental Precautions:	Isolate runoff to prevent environmental pollution.			
	7. Handling and Storage			
Handling Conditions:	Wash thoroughly after handling.			
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.			
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.			
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.			

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

Eye Protection: Safety glasses or goggles, full face protection

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Grey

Form: Granules, Pellets, Sputtering target, Custom parts

Odor:

Water Solubility:

Reacts violently

Boiling Point:

1342 °C

Melting Point:

180.5 °C

Flash Point:

N/A

Autoignition Temperature:

N/A

Density:

Odorless

Reacts violently

1342 °C

N/A

N/A

0.53 g/cc

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Water, Acids, Oxidizing agents

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Lithium oxide

Note: In contact with water releases flammable gases which may ignite

spontaneously.

6.941 g/mol

11. Toxicological Information

Potential Health Effects:

Molecular weight:

Eyes: Causes serious eye damage. Skin: Causes severe skin burns.

Ingestion: Strong corrosive effect on mouth and throat to the danger of perforation

of esophagus and stomach.

Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12.	Ecol	logical	I	nformation

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 4.3 substances which, in contact with water, emit flammable gases.

Packing Group:

UN Number: UN1415 Proper Shipping Name: Lithium

Notes: There are special transportation regulations regarding this material

## 15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
No
Sec 313 Toxic Chemicals:
No

## 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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