

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Lithium Sulfide

1. Product and Company Identification

Trade Name: Lithium sulfide

Chemical Formula: Li₂S

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: H228 Flammable solid

H261 In contact with water, releases flammable gas

H301: Toxic if swallowed H315 Causes skin irritation H318 Causes serious eye damage H335 May cause respiratory irritation

Precautionary Statements: P210 Keep away from heat/sparks/flame. No smoking.

P231+P232 Handle under inert gas

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

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: 2 Physical: 2

3. Composition	
Additional Names:	None
Lithium sulfide (Li ₂ S):	
Percentage:	100 wt.%
CAS #:	12136-58-2
EC #:	235-228-1
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
E	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	contact lenses if present and easy to do. Continue thisting
	5. Firefighting Measures
Flammability:	Flammable
	Reacts violently with water
Extinguishing Media:	Do not use water – use CO ₂ , 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.
En language 1 Day of Comp	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
XX 1 dX · · · · · · · · · ·	inert gas. 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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below
· Chiliation.	threshold limit.

8. Exposure Controls and Personal Protection Permissible Exposure Limits: None Threshold Limit Value: None Special Equipment: None Respiratory Protection: **Dust Respirator** Protective Gloves: Nitrile rubber, NBR 0.11mm thick. Penetration time of glove material: 480 minutes Eve Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color Yellow Powder, Granules, Pellets, Sputtering target, Custom parts Form: Odor: Rotten eggs Water Solubility: Reacts violently **Boiling Point:** 1372 °C Melting Point: 900-975 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: 1.66 g/cc Molecular weight: 45.95 g/mol 10. Reactivity Stability: Stable under recommended storage conditions Reactions are violent with Water, Acids Reacts with: Incompatible Conditions/Materials: Acids, Water/Moisture Hazardous Decomposition Products: Hydrogen sulfide, Lithium oxide, Sulfur oxide 11. Toxicological Information Potential Health Effects: Eyes: Causes serious eye irritation Skin: causes skin irritation Ingestion: Toxic Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: 1200 mg/kg to mouse by mouth 240 mg/kg to rat by mouth Carcinogen: N/A

12. Ecological Information

12. Beological

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 release flammable gases

Secondary Class 6.1 Toxic substances

Packing Group:

UN Number: UN3134

Proper Shipping Name: Water-reactive solid, toxic, n.o.s. (Lithium sulfide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A 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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