

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet

Lithium hydride

1. Product and Company Identification

Trade Name: Chemical Formula:	Lithium hydride LiH
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD No.
Street:	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
	spontaneously H301: Toxic if swallowed H314: Causes severe skin burns and eye damage H318: Causes serious eye damage
Precautionary Statements:	P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.
	P231+P232: Handle under inert gas. Protect from moisture.
	P260: Do not breathe dust/fume/gas/mist/vapors/spray.
	P264: Wash face, hands, and skin thoroughly after handling.
	P270: Do not eat, drink, or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection. P301 + P310 + P330 + P331: IF SWALLOWED: Immediately call a
	POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off
	immediately all contaminated clothing. Rinse skin with water/ shower.
	P304 + P340 + P310: IF INHALED: Remove victim to fresh air and
	keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
	POISON CENTER of doctor/ physician. P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water
	for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing. Immediately call a POISON CENTER/doctor.
	P335 + P334: Brush off loose particles from skin. Immerse in cool
	water/ wrap in wet bandages.
	P363: Wash contaminated clothing before reuse.

HMIS Health Ratings (0-4): Health:	 P370 + P378: In case of fire: Use dry sand, dry chemical, or alcoholresistant foam for extinction. P402 + P404: Store in a dry place. Store in a closed container. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.
Flammability:	2
Physical:	0
	3. Composition
Chemical Family: Additional Names:	Hydride Lithium Monohydride
Lithium Hydride (LiH):	0.100
Percentage: CAS #:	0-100 wt% 7580-67-8
EC #:	231-484-3
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment: Important Symptoms:	None Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim ingested or inhaled the substance give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately. If not breathing, give artificial respiration.
Ingestion:	Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	5. Firefighting Measures
Flammability:	Flammable
Extinguishing Media:	CO ₂ , dry chemical, dry sand, alcohol-resistant foam.
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 disposa 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 fror 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 threshold limit.
8. E	Exposure Controls and Personal Protection
Permissible Exposure Limits:	0.025 mg/m ³ as Lithium Hydride, long-term value
Threshold Limit Value:	0.05 mg/m ³ as Lithium Hydride, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
9	. Physical and Chemical Characteristics
Color	Light Gray
Form: Odor:	Powder, Granules, Pellets, Sputtering target, Custom parts
Water Solubility:	Odorless Reacts violently with water
Boiling Point:	N/A
Melting Point:	680 °C
Flash Point:	N/A
Autoignition Temperature:	>160°C
Density:	0.82 g/cc at 25°C
Molecular weight:	7.95 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Strong oxidizing agents, Alcohols, Chlorine, oxygen, Reacts violently with water.
Incompatible Conditions:	Excess heat. Exposure to moist air or water. Exposure to moisture.
medindandie Conditions.	

	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	Toxic if swallowed
Inhalation:	May cause irritation
Chronic:	N/Å
Signs & Symptoms:	Causes burns by all exposure routes. Ingestion causes severe swelling severe damage to the delicate tissue and danger of perforation.
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	77.5 mg/kg for rat by mouth
Carcinogen:	Not Listed
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state,	, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation
Hazardous:	Hazardous for transportation
Hazard Class:	4.3
Hazard Class: Packing Group:	4.3 I
Hazard Class: Packing Group: UN Number:	4.3 I UN 1414
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Hazard Class: Packing Group: UN Number:	4.3 I UN 1414
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	4.3 I UN 1414 LITHIUM HYDRIDE 15. Regulatory Information N/A
Hazard Class: Packing Group: UN Number: Proper Shipping Name:	4.3 I UN 1414 LITHIUM HYDRIDE 15. Regulatory Information

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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