

Trade Name:

Chemical Formula:

Recommended Use:

Manufacturer/Supplier:

Street:

Zip Code:

Country: Tel #:

City: State:

XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet Lithium Borate

1. Product and Company Identification

Lithium borate LiBO₂ Scientific research and development

XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone XIAN SHAANXI 710077 China +86-29-88993870/+86-13519132051

2. Hazards Identification		
Signal Word:	Warning	
Hazard Statements:	H315 Causes skin irritation.	
	H319 Causes serious eye irritation.	
	H335: May cause respiratory irritation	
Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical:	 P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338 IF IN EYES: Rinse cautiously with water for severa minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations 	
	3. Composition	
Chemical Family:	Ceramic	
Additional Names:	Lithium metaborate	
Lithium borate (LiBO ₂): Percentage: CAS #:	100 wt% 1345-369-5	
EC #:	236-631-5	

	4. First Aid Procedures
General Treatment: Special Treatment:	Seek medical attention if symptoms persist. 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
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
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.
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions: Storage Conditions:	Handle under dry protective gas. Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry 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 threshold limit.
{	8. Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	N/A N/A
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long
Douy Flottenon.	Trotective work crothing. Wear cross-toed shoes and rong

9. Physical and Chemical Characteristics		
Color	White	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	25.7 g/l	
Boiling Point:	N/A	
Melting Point:	845 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	1.397 g/cc	
Molecular weight:	49.75 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Acid anhydrides, Alkali metals, Oxidizing agents	
Incompatible Conditions:	Water/moisture	
Hazardous Decomposition Products:	Boron oxide, Lithium oxide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/Å	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N(A	
Carcinogen:	N/A	
	12. Ecological Information	
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	Not hazardous for transportation	

Hazardous:	Not hazardous for transportation.
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A

	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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