XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Lithium Tetraborate

1. Product and Company Identification

Trade Name: Lithium tetraborate

Chemical Formula: Li₂B₄O₇

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., No.

Street: 69, Gazelle Valley, High-Tech Zone

City: **XIAN SHAANXI** State: 710077 Zip Code: **CHINA** Country:

Tel #: +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

H302: Harmful if swallowed

Precautionary Statements: 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 several 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

HMIS Health Ratings (0-4):

Health: 2 0 Flammability: Physical:

	3. Composition				
Chemical Family: Additional Names:	Ceramic Lithium borate				
Additional Names:	Lithium borate				
Lithium tetraborate (Li ₂ B ₄ O ₇):					
Percentage: CAS #:	100 wt%				
EC #:	12007-60-2 234-514-3				
	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 contaminated clothing.				
Eyes:	Flush eyes with water, blinking often for several minutes. Remove				
<i>2</i> yes.	contact lenses if present and easy to do. Continue rinsing				
	5. Firefighting Measures				
Flammability:	Non-flammable				
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for				
G E E L D	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. Hondling and Storage				
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Handling Conditions:	Wash thoroughly after handling.				
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from				
Work/Hygienic Maintenance:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before				
work/rrygicine iviannenance.	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 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: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color White Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** Water Solubility: 28.9 g/l **Boiling Point:** N/A Melting Point: 930 °C Flash Point: N/A Autoignition Temperature: N/A 2.4 g/cc Density: Molecular weight: 49.75 g/mol 10. Reactivity Stable under recommended storage conditions Stability: Reacts With: Acids, Acid anhydrides, Alkali metals, Oxidizing agents **Incompatible Conditions:** None Hazardous Decomposition Products: Lithium oxide, Boron oxide 11. Toxicological Information Potential Health Effects: Eyes: Causes serious eye damage Skin: Causes skin irritation Ingestion: May cause irritation 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. Ecological Information

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

13. Dis	posal	Consid	erations
13. 115	posui	COILDIG	Ciutions

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

14. Transportation 1	Data
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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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