

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

1. Product and Company Identification

Trade Name: Chemical Formula:	Lithium nitride Li ₃ N
Recommended Use:	Scientific research and development
Manufacturer/Supplier: Street:	XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077 China
Country: Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H260: In contact with water releases flammable gases which may ignit
	spontaneously. H314: Causes severe skin burns and 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 skin thoroughly after handling.
	P280: Wear protective gloves/ protective clothing/ eye protection/ face
	protection. P301+P330+P331: IF SWALLOWED: 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.
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	POISON CENTER or 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.
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	 POISON CENTER or 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. P370+P378: In case of fire: Use dry sand, dry chemical or alcoholresistant foam for extinction.

Health: Flammability:	3 4 2
Physical:	3
	3. Composition
Chemical Family: Additional Names:	Ceramic N/A
Lithium nitride (Li ₃ N):	
Percentage:	100 wt%
CAS #: EC #:	26134-62-3 247-475-2
EC #.	247-475-2
	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. Keep patient warm. Seek immediate medical attention.
Ingestion: Skin:	Seek immediate medical attention. Immediately wash affected area with mild soap and water. Remove any
SKIII.	contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
5	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Flammable
Extinguishing Media:	Do not use water for fires – 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. Keep unprotected persons away. Isolate spill area and provide ventilation. Use neutralizing agent. 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:	Handle under dry protective gas. Avoid contact with skin and eyes.
	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, strong bases, oxidizing agents. Store under dry inert gas. This product is moisture sensitive. Keep away from sources of ignition. Protect from humidity and water. 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:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per	
Despiratory Protection:	minute.	
Respiratory Protection: Protective Gloves:	Dust Respirator	
Eye Protection:	Nitrile rubber gloves with minimum thickness of 0.11 mm Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
Body Protection.	sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	Red to brown	
Form:	Powder	
Odor:	Ammonia-like	
Water Solubility:	Contact with water liberates extremely flammable gases.	
	N/A	
Boiling Point:	845 °C	
Melting Point:		
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	1.3 g/cc	
Molecular weight:	34.83 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions. Reacts violently with water. Contact with water liberates extremely flammable gases	
Reacts With:	Oxidizing agents, water/moisture, copper, carbon tetrachloride, bases silicon tetrafluoride. Contact with acids releases toxic gases.	
Incompatible Conditions:	Water/moisture	
Hazardous Decomposition Products:	Metal oxide fume, nitrogen oxides, lithium oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye damage.	
Skin:	Causes severe skin burns.	
Ingestion:	Swallowing will lead to a strong corrosive effect on mouth and throat	
5	and to the danger of perforation of esophagus and stomach.	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	Material is extremely destructive to tissue of the mucous membrane	
	and upper respiratory tract, eyes, and skin. Spasm, inflammation and edema of the larynx. Spasm, inflammation and edema of the bronchi Pneumonitis, pulmonary edema, burning sensation, cough, wheezing laryngitis, shortness of breath, headache, nausea	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	

	ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A N/A N/A Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation
Hazard Class: Packing Group: UN Number: Proper Shipping Name:	4.3 Substances which, in contact with water, emit flammable gases I UN2806 Lithium nitride
	15. Regulatory Information
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A 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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