

Trade Name:

Chemical Formula:

Recommended Use:

Manufacturer/Supplier:

Street:

City:

State:

Zip Code:

Country: Tel #:

XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet Magnesium Nitride

1. Product and Company Identification

Magnesium nitride Mg₃N₂ Scientific research and development

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

2. Hazards Identification		
Signal Word:	Danger	
Hazard Statements:	H315 Causes skin irritation H319 Causes serious eye irritation H228: Flammable solid H335: May cause respiratory irritation	
Precautionary Statements:	 P261 Avoid breathing dust/fume/vapor. P264: Wash face hands and any exposed skin thoroughly after handling. P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P241: Use explosion-proof electrical/ventilating/lighting/equipment P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P350: IF ON SKIN: Gently wash with plenty of soap and wate P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P332+P313: If skin irritation occurs: Get medical advice/attention. P362: Take off contaminated clothing and wash before reuse. P370+P378: In case of fire: Use CO₂ or dry chemical or foam for extinction. P403+P233: Store in a well ventilated place. Keep container tightly closed. P405: Store locked up. P501: Dispose of contents/container in accordance with local/regional/national/international regulations. 	

HMIS Health Ratings (0-4):	
Health:	2
Flammability:	2
Physical:	2
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Trimagnesium dinitride
Magnesium nitride (Mg ₃ N ₂):	
Percentage:	100 wt%
CAS #:	12057-71-5
EC #:	235-022-1
	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.
T	Seek immediate medical attention.
Ingestion:	Clean mouth immediately with plenty of water. Seek immediate
G1 1	medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
	Flammable
Thummuotity.	
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
speer i ne i ignung i ioeedatei	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 protective 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 compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	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	Beige
Form:	Powder, Pieces, Sputtering target
Odor:	N/A
Water Solubility:	Insoluble
Boiling Point: Malting Point:	N/A 800 °C
Melting Point: Flash Point:	N/A
Autoignition Temperature:	N/A N/A
Density:	2.712 g/cc
Molecular weight:	100.93 g/mol
•	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	Air, Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, Nitrogen oxides

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes skin irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Inhalation of magnesium compounds may cause metal fume fever.
	Metallic magnesium which perforates the skin may cause local lesions.
	Some magnesium salts have produced muscle weakness, cardiac
	arrhythmias, respiratory effects and changes in blood chemistry
	following ingestion.
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	e, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation.
Hazardous:	
Hazardous: Hazard Class:	Hazardous for transportation.
Hazard Class:	Hazardous for transportation.
Hazard Class: Packing Group:	Hazardous for transportation.
Hazard Class:	Hazardous for transportation.
Hazard Class: Packing Group: UN Number:	Hazardous for transportation.
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	Hazardous for transportation. A.1 Flammable solids, self-reactive substances and solid desensitized explosives II UN3178 Flammable solid, inorganic, n.o.s. (Magnesium nitride) 15. Regulatory Information No
Hazard Class: Packing Group: UN Number: Proper Shipping Name:	Hazardous for transportation. A.1 Flammable solids, self-reactive substances and solid desensitized explosives II UN3178 Flammable solid, inorganic, n.o.s. (Magnesium nitride) 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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