

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

Calcium Nitride

1. Product and Company Identification		
Trade Name:	Calcium nitride	
Chemical Formula:	Ca_3N_2	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shannxi	
Zip Code:	710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H228: Flammable solid H314: Causes severe skin burns and eye damage	
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No	
	smoking	
	P260: Do not breathe dust/fume/gas/mist/vapours/spray	
	P303+P361+P353: IF ON SKIN (or hair): Remove/Take off	
	immediately all contaminated clothing. Rinse skin with water/showe	
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –	
	continue rinsing	
	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	
	1	
Chemical Family:	Ceramic	
Chemical Family: Additional Names:	-	
Additional Names: Calcium nitride (Ca ₃ N ₂):	Ceramic Tricalcium dinitiride	
Additional Names:	Ceramic	

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	Causes severe skin burns.
	Causes severe eye damage.
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Incontion	Seek immediate medical attention. Seek immediate medical attention.
Ingestion: Skin:	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
	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 metal 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. 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. 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 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
v untilation.	threshold limit.
8.	Exposure 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: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long
body i lotecholl.	sleeves/pants.
	see punto.

9. Ph	ysical and Chemical Characteristics
Color	Brown
Form:	Granules
Odor:	Ammonia-like
Water Solubility:	Insoluble, contact with water releases toxic gases.
Boiling Point:	N/A
Melting Point:	1195 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	2.63 g/cc
Molecular weight:	148.25 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Water, Acids, Oxidizing agents
Incompatible Conditions:	Air, Water/moisture
Hazardous Decomposition Products:	Calcium oxide, Nitrogen oxide, Ammonia
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Strong corrosive effect on mouth and throat to the danger of perforation of esophagus and stomach.
Inhalation:	May cause irritation
Chronic:	N/Ă
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 Notes:	:: No N/A
	13. Disposal Considerations

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

	14. Transportation Data
Hazardous:	Hazardous.
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives.
Packing Group:	II
UN Number:	UN3178
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Calcium nitride)
	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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