

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

Gallium Nitride

	1. Product and Company Identification		
Trade Name:	Gallium nitride		
Chemical Formula:	GaN		
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:	Warning		
Hazard Statements:	H317: May cause an allergic skin reaction		
Hazard Statements: Precautionary Statements:	H317: May cause an allergic skin reaction P261 Avoid breathing dust/fume/gas/mist/vapours/spray.		
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3. Composition		
Chemical Family:	Ceramic	
Additional Names:	Gallium(III) nitride	
Gallium nitride (GaN):		
Percentage:	100 wt%	
CAS #:	25617-97-4	
EC #:	247-129-0	
	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	
Error	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing	
	contact tenses if present and easy to do. Continue thising	
	5. Firefighting Measures	
Flammability:	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. Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
Environmental i recautons.	isolate fullon to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry	
Work/Hygiania Maintananaa	inert gas. Store apart from materials and conditions listed in section 10 Do not use tobacco or food in work area. Wash thoroughly before	
Work/Hygienic Maintenance:	eating and smoking. Do not blow dust off clothing or skin with	
	compressed air.	
	Provide sufficient ventilation to maintain concentration at or below	
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8. Exp	posure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile rubber, NBR gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
9. F	Physical and Chemical Characteristics
Color	Yellow
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	800 °C
Flash Point:	N/A
Autoignition Temperature:	N/A N/A
Density: Molecular weight:	6.1 g/cc
Molecular weight:	83.73 g/mol
	10. Reactivity
 Stability:	Stable under recommended storage conditions
Reacts With:	Water, Oxidizing agents
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Nitrogen oxides, Gallium 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/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 Bioaccumulati	
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.	
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.

Document Last Revised:

03/21/2015