

LTS Research Laboratories, Inc. 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: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H317: May cause an allergic skin reaction

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P363: Wash contaminated clothing before reuse

P321: Specific treatment

P333+P313: If skin irritation or a rash occurs: Get medical

advice/attention

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

None

HMIS Health Ratings (0-4):

Health: 1
Flammability: 0
Physical: 0

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
P.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	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
	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.
	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
	inert 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
XX	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: Dust Respirator** Protective Gloves: Nitrile rubber, NBR gloves Eve Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. 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 Density: 6.1 g/cc 83.73 g/mol Molecular weight: 10. Reactivity Stable under recommended storage conditions Stability: Water, Oxidizing agents Reacts With: Water/moisture **Incompatible Conditions:** 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 N/A Signs & Symptoms: **Aggravated Medical Conditions:** N/A Median Lethal Dose: N/A N/A Carcinogen: 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, national, and international regulations.

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	

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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