LTS Research Laboratories, Inc. Safety Data Sheet Hafnium Nitride

1. Product and Company Identification	
Trade Name:	Hafnium Nitride
Chemical Formula:	HfN
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:	None
Hazard Statements:	N/A
Precautionary Statements:	N/A
HMIS Health Ratings (0-4):	
Health:	0 Decembra
Flammability:	
Physical:	0
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Hafnium(III) nitride
Hafnium Nitride (HfN):	
Percentage:	100 wt%
CAS #:	25817-87-2
EC #:	247-282-3
	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
Eyes:	contaminated clothing.
	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, except as powder
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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: Storage Conditions:	Wash thoroughly after handling. Avoid breathing vapors, mist or gas. Store in a cool dry place in a tightly sealed container. Store apart from
Work/Hygienic Maintenance:	materials and conditions listed in section 10. 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. Avoid dust formation. Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	0.5 mg/m ³ as HfN, long-term value 0.5 mg/m ³ as HfN, long-term value
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	9. Physical and Chemical Characteristics Yellow
Form:	Yellow Powder, Granules, Pellets, Sputtering target, Custom parts
Form: Odor:	Yellow Powder, Granules, Pellets, Sputtering target, Custom parts Odorless
Form: Odor: Water Solubility:	Yellow Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble
Form: Odor: Water Solubility: Boiling Point:	Yellow Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A
Form: Odor: Water Solubility: Boiling Point: Melting Point:	Yellow Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A >3305 °C
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point:	Yellow Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A >3305 °C N/A
Form: Odor: Water Solubility: Boiling Point: Melting Point:	Yellow Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A >3305 °C

10. Reactivity		
Stability:	Stable under recommended storage conditions	
Reacts With:	Strong oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fumes	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Prolonged inhalation may be harmful.	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	N/A	
Persistent Bioaccumulation Toxicity:	N/A	
Very Persistent, Very Bioaccumulative:	N/A	
Notes:	N/A CResearch	
	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:	N/A	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	N/A	

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:

08/24/2021

