

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: Warning



Hazard Statements: H302+H332: Harmful if swallowed or if inhaled

H319 Causes serious eye irritation. H335: May cause respiratory irritation H400: Very toxic to aquatic life

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

P271: Use only outdoors or in a well-ventilated area

P273: Avoid release to the environment

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

protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rınsıng.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition					
Chemical Family: Additional Names:	Ceramic				
Hafnium nitride (HfN):					
Percentage:	100 wt%				
CAS #:	25817-87-2				
EC #:	NIL				
	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				
Even	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:	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 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: 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 Yellow Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** >3305 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: N/A 192.50 g/mol Molecular weight: 10. Reactivity Stability: Stable under recommended storage conditions Acids, Bases, Oxidizing agents Reacts With: **Incompatible Conditions:** Water/moisture pretories, Inc. Hazardous Decomposition Products: Metal oxide fume 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.

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 4.3 Substances which, in contact with water, emit flammable gases

Packing Group:

UN Number: UN2813

Proper Shipping Name: N/A Water reactive solid, n.o.s

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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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