

## LTS Research Laboratories, Inc. Safety Data Sheet

## Zinc Nitride

1. Product and Company Identification

Trade Name: Zinc Nitride Chemical Formula:  $Zn_3N_2$ 

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: H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P264: Wash face, hands, and any exposed skin thoroughly after

handling

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

protection

P302+P352: IF ON SKIN: Wash with soap and water

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

continue rinsing

P332+P313: If skin irritation occurs: Get medical advice/attention P337+P313: If eye irritation persists get medical advice/attention P362: Take off contaminated clothing and wash before reuse

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

3. Composition		
Chemical Family: Additional Names:	Inorganic N/A	
Zinc Nitride (Zn <sub>3</sub> N <sub>2</sub> ):		
Percentage:	100 wt%	
CAS #:	1313-49-1	
EC #:	215-207-3	
	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. Seek immediate medical attention.	
Ingestion:	Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical	
	attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
Error	contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove	
Eyes:	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable paretories, inc.	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires	
Spec. Fire Fighting Procedure:	use CO <sub>2</sub> , sand, extinguishing powder.	
	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 and store in a controlled environment or under inert gas. Wash	
-	thoroughly after handling. Avoid dust formation.	
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	
Body Frotection.	sleeves/pants.	
9. P	hysical and Chemical Characteristics	
Color	Black-Grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
	N/A	
Autoignition Temperature:		
Density:	6.22 g/cc	
Molecular weight:	224.154 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Water, Oxidizing agents	
Incompatible Conditions:	Air/Moisture	
Hazardous Decomposition Products:	Metal oxide fume, Nitrogen oxides (NOx), Zinc oxide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Cause serious irritation	
Skin:	Cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Zinc containing fumes may cause metal fumes fever. Effects include	
Chronic.	dry throat, metallic taste, chest pain, dyspnea, rales and dry cough.	
	Several hours later, chills may occur with lassitude, malaise, fatigue,	
	headache, back pain, muscle cramps, blurred vision, nausea, fever,	
	perspiration, vomiting and leukocytosis.	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	N/A	
	N/A	
Persistent Bioaccumulation Toxicity:		

N/A

N/A

Very Persistent, Very Bioaccumulative:

Notes:

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			

## 16. Other Information

Yes

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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Sec 313 Toxic Chemicals: