

LTS Research Laboratories, Inc. Safety Data Sheet Calcium Nitride

1. Product and Company Identification	
Trade Name:	Calcium nitride
Chemical Formula:	Ca_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
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Signal Word:	Danger
Hazard Statements:	H228: Flammable solid
nuzura butenents.	H314: Causes severe skin burns and eye damage
Precautionary Statements:	 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P260: Do not breathe dust/fume/gas/mist/vapours/spray P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	2
Flammability:	2
Physical:	2
	3. Composition
Chemical Family: Additional Names:	Ceramic Tricalcium dinitiride
Calcium nitride (Ca ₃ N ₂):	
Percentage:	100 wt%
CAS #:	12013-82-0

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	Causes severe skin burns.
	Causes severe eye damage.
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
	Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Flammable
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
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: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long
body i fotedoll.	sleeves/pants.
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9. Physical and Chemical Characteristics		
Color	Brown	
Form:	Granules	
Odor:	Ammonia-like	
Water Solubility:	Insoluble, contact with water releases toxic gases.	
Boiling Point:	N/A	
Melting Point:	1195 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	2.63 g/cc	
Molecular weight:	148.25 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Water, Acids, Oxidizing agents	
Incompatible Conditions:	Air, Water/moisture	
Hazardous Decomposition Products:	Calcium oxide, Nitrogen oxide, Ammonia	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	Strong corrosive effect on mouth and throat to the danger of perforatio of esophagus and stomach.	
Inhalation:	May cause irritation	
Chronic:	N/A Contraction Research	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	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.
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives.
Packing Group:	II
UN Number:	UN3178
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Calcium nitride)
	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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