

# LTS Research Laboratories, Inc. Safety Data Sheet Barium Nitride

1. Product and Company Identification

Trade Name: Barium nitride

Chemical Formula: Ba<sub>3</sub>N<sub>2</sub>

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: Danger



Hazard Statements: H300 Fatal if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician.

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

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

in a position comfortable for breathing.

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

Continue rinsing.

P362 Take off contaminated clothing and wash before reuse.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 3 Flammability: 4 Physical: 2

3. Composition	
Chemical Family: Additional Names:	Salt Tribarium dinitride
Barium nitride (Ba <sub>3</sub> N <sub>2</sub> ):	
Percentage:	100 wt%
CAS #: EC #:	12047-79-9 234-977-1
	4. First Aid Procedures
Consol Transferent	Cools and itself attention if a manufacture is a
General Treatment: Special Treatment:	Seek medical attention if symptoms persist. None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Rinse mouth with water. Never give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any 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: Storage Conditions:	Wash thoroughly after handling. 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

Special Equipment: None

Threshold Limit Value:

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

N/A

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 Dark vellow Powder Form: **Odorless** Odor: Water Solubility: soluble **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: 4.783 g/cc Molecular weight: 440.0 g/mol

# 10. Reactivity tories inc

Stability: Stable under recommended storage conditions

Reacts With: Water, Oxidizing agents

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Ammonia, Nitrogen oxides, Barium oxide

## 11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 46.1 mg/kg for rat by mouth

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 for transportation.



Hazard Class: 4.3 Substances which, in contact with water, release flammable gas

Packing Group:

UN Number: UN2813

Proper Shipping Name: Water-reactive solid, n.o.s. (Barium nitride)

# 15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

### 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: 06/16/2015