

# LTS Research Laboratories, Inc. Safety Data Sheet Neodymium Bromide Hydrate

### 1. Product and Company Identification

Trade Name: Neodymium Bromide Hydrate

Chemical Formula: NdBr<sub>3</sub>\*xH<sub>2</sub>O

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 H335: May cause respiratory irritation

Precautionary Statements: P261: Avoid breathing dust/fume/vapor

P264: Wash skin thoroughly after handling

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

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

protection

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

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

in a position comfortable for breathing

P305+P351 IF IN EYES: Rinse cautiously with water for several

minutes.

P312: Call a POISON CENTER or doctor/physician if you feel unwell 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 P403+P233: Store in a well-ventilated place. Keep container tightly

closed.

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: 0
Physical: 0

3. Composition	
Chemical Family:	Nonmetal
Additional Names:	Neodymium tribromide hydrate
Neodymium Bromide Hydrate (NdBr	<sub>3</sub> *xH <sub>2</sub> O):
Percentage:	100 wt%
CAS #:	29843-90-1
EC #:	236-897-2
	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.
	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately 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. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
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. Keep unprotected persons away. 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:	Avoid contact with skin and eyes. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
	inert gas. Protect from humidity and water. This product is
	hygroscopic. 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

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemical and having an average face velocity of at least 100 feet per

minute.

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 Violet

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A
Water Solubility: N/A
Boiling Point: N/A
Melting Point: N/A
Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A
Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, acids Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Metal oxide fume, hydrogen bromide, neodymium oxides

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: May cause irritation

Inhalation: May cause respiratory irritation

Chronic: Respiratory disorders. Lanthanons can cause delayed blood clotting

leading to hemorrhages. Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste and liver damage. Inorganic bromides may produce depression, emaciation and in severe cases, psychosis and mental deterioration. Bromoderma, a bromide rash, often occurs when bromide inhalation or administration is prolonged. This rash is usually found on the face and resembles acne

and furunculosis.

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

Median Lethal Dose: N/A

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### 12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes:

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or large quantities to reach ground

water, water course and sewage system. Avoid transfer into the environment.

### 13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

## 14. Transportation Data

Hazardous: Not hazardous for transportation.

Hazard Class:
Packing Group:

N/A
Research
N/A
N/A
N/A

UN Number: N/A
Proper Shipping Name: N/A

## 15. Regulatory Information

Sec 302 Extremely Hazardous:NoSec 304 Reportable Quantities:N/ASec 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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