

LTS Research Laboratories, Inc. Safety Data Sheet

Lanthanum Nitrate Hydrate

1. Product and Company Identification

Trade Name: Lanthanum Nitrate Hydrate

Chemical Formula: La(NO3)3.xH2O

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 Country: USA

Tel #: +1 (704) 899 2840

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word:









Hazard Statements:

Precautionary Statements:

H272: May intensify fire; oxidizer.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H410: Very toxic to aquatic life with long lasting effects.

P210: Keep away from heat.

P220: Keep/Store away from clothing/ combustible materials. P221: Take any precaution to avoid mixing with combustibles. P261: Avoid breathing dust/fume/gas/mist/vapors/spray from alfa P264: Wash face, hands and skin thoroughly after handling.

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

P273: Avoid release to the environment.

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

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water. P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcoholresistant foam to extinguish.

P391: Collect spillage.

P403: Store in a well ventilated place.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4): Powder

Health: 2 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Inorganic Compound
Additional Names: Lanthanum trinitrate hydrate

Lanthanum Nitrate Hydrate (La(NO3)3.xH2O):

Percentage: 0-100 wt% CAS #: 10277-43-7 EC #: 233-238-0

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Flammability:

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Seek medical attention.

Ingestion: Do NOT induce vomiting. Seek medical attention.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures B. Inc.

Non-flammable, except as powder

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment. Water spray, carbon dioxide (CO2),

dry chemical, alcohol-resistant foam.

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.

absolute (TIETA) all filter and place in a closed container for dis

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wear personal protective equipment. Wash thoroughly after handling.

Store away from sunlight in a cool (2-10 °C) well-ventilated dry place. **Storage Conditions:**

> Hygroscopic. Keep away from open flames, hot surfaces and sources of ignition. Store apart from materials and conditions listed in section 10.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance:

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Provide sufficient ventilation to maintain concentration at or below Ventilation:

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, filter type P2 **Protective Gloves:** Nitrile rubber gloves, 0.11 mm think

Safety glasses or goggles Eve Protection:

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

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

Odor: N/A

Research Water Solubility: Soluble ratorias, Inc. **Boiling Point:** 126 °C

Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A

Density: 1.3 g/cm^3 Molecular weight: 433.01 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions. Oxidizer. Hygroscopic.

Reacts With: Reducing agents, strong acids, finely powdered metals, combustible

substances.

Incompatible Conditions: Excess heat, avoid dust formation, combustible mater.

Hazardous Decomposition Products: Nitrogen oxides (NOx), heavy metal oxides.

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage May cause irritation Skin: Ingestion: May cause irritation Inhalation: May cause irritation

Prolonged or repeated exposure can cause: blood disorders, aspiration Chronic:

or inhalation may cause chemical pneumonitis.

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

Median Lethal Dose: 4,500 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

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

Notes: Do not empty into drains. May cause long-term adverse effects in the

environment. Do not allow material to contaminate ground water

system.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation as powder and pieces/granules only.



Hazard Class: 5.1

Packing Group: II UN Number: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s. (Lanthanum Nitrate Hydrate)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: No 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: 10/09/2024