

LTS Research Laboratories, Inc. Safety Data Sheet Praseodymium Nitrate Hexahydrate

1. Product and Company Identification

Trade Name: Praseodymium nitrate hexahydrate

Chemical Formula: $Pr(NO_3)_3$. $6H_2O$

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy
City: Belmont, Charlotte
State: North Carolina

Zip Code: 28012 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: H272: May intensify fire; oxidizer

H315: Causes skin irritation

H319: Causes serious eye irritation H335: May cause respiratory irritation

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: P210: Keep away from heat/ sparks/open flames/hot surfaces – No

smoking

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

P264: Wash face, hands, and any exposed 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 + P352: IF ON SKIN: Wash with plenty of soap and water P304+P340+P312: IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell

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

Continue rinsing

 $P332+P313\colon$ If skin irritation occurs: Get medical advice/ attention $P337+P313\colon$ If eye irritation persists: Get medical advice/ attention $P362\colon$ Take off contaminated clothing and wash before reuse $P370+P378\colon$ In case of fire: Use CO_2 , dry sand, dry chemical, or

alcohol- resistant foam to extinguish

P391: Collect spillage

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: 1

3. Composition

Chemical Family: Inorganic Compound

Additional Names: None

Praseodymium nitrate hexahydrate (Pr(NO₃)₃. 6H₂O):

Percentage: 100 wt% CAS No: 15878-77-0 EC No: 233-796-5

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

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

Seek medical attention.

Ingestion: Rinse mouth with water. 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

Flammability: Non-flammable, except as powder

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire. Do not use water for metal fires -

use CO₂, 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: This product does not contain any hazardous materials with

occupational exposure limits

Threshold Limit Value: This product does not contain any hazardous materials with

occupational exposure limits

Special Equipment: None

Eye Protection:

Respiratory Protection:

Protective Gloves:

Dust Respirator

Rubber gloves

Check gloves prior to each use Safety glasses or goggles

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Light Green

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

Odor:
Water Solubility:
Boiling Point:
Melting Point:
Flash Point:
Autoignition Temperature:

Odorless
Soluble
83 °C
N/A
N/A
N/A

Density: 2.233 g/cm³ Molecular weight: 435.01 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Strong reducing agents, Combustible material, Various metals

Incompatible Conditions: Exposure to light. Exposure to moist air or water. Excess heat.

Combustible material.

Hazardous Decomposition Products: Nitrogen oxides (NO_x), Praseodymium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: N/A

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

Median Lethal Dose: LD50= 3,500 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Very toxic to aquatic life with long lasting effects

Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
Notes: None

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 5.1
Packing Group: III
UN Number: UN1477

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Praseodymium nitrate

hexahydrate)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 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.

Document Last Revised: 02/07/2023