

LTS Research Laboratories, Inc. Safety Data Sheet Praseodymium Oxide

1. Product and Company Identification

Trade Name: Praseodymium oxide

Chemical Formula: Pr₆O₁₁

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 #: 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: H319: Causes serious eye irritation

H315: Causes skin irritation

H335: May cause respiratory irritation

Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P302 + P352: IF ON SKIN: Wash with plenty of soap and water P280: Wear protective gloves/protective clothing/eye protection/face

protection

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

Continue rinsing

P264: Wash face, hands and any exposed skin thoroughly after

handling

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Ceramic

Additional Names: Praseodymium(III,IV) oxide

Praseodymium oxide (Pr₆O₁₁):

Percentage: 100 wt% CAS #: 12037-29-5 EC #: 234-857-9

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. Ingestion: Seek Medical Attention. 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 No special restrictions – use suitable extinguishing agent for Extinguishing Media: surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Isolate runoff to prevent environmental pollution. **Environmental Precautions:** 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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. 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: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

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9. P	Physical and Chemical Characteristics		
Color	Black		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	4200 °C		
Melting Point:	2200 °C		
Flash Point:	N/A . 400.0G		
Autoignition Temperature:	> 400 °C		
Density: Molecular weight:	6.5 g/ml 1021.44 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Oxidizing agents, Carbon dioxide (CO ₂), Strong oxidizing agents		
Incompatible Conditions:	Exposure to moist air or water		
Hazardous Decomposition Products:	Metal oxide fume		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	Causes serious eye irritation		
Skin:	Causes skin irritation		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	N/A		
Signs & Symptoms:	N/A C-Research		
Aggravated Medical Conditions:	N/A		
Median Lethal Dose:	LD50 Oral- 2000 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:	Not hazardous for transportation.		
Hazard Class:	N/A		
Packing Group:	N/A		
UN Number:	N/A		
Proper Chinning Name:	N/A		

N/A

Proper Shipping Name:

	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.

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