LTS Research Laboratories, inc.

LTS Research Laboratories, Inc. Safety Data Sheet Neodymium Oxide

1. Product and Company Identification	
Trade Name:	Neodymium oxide
Chemical Formula:	Nd_2O_3
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:	None
Hazard Statements:	None
Precautionary Statements:	None
HMIS Health Ratings (0-4):	
Health:	1 Decreach
Flammability:	
Physical:	
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Neodymium(III) oxide
Neodymium oxide (Nd ₂ O ₃):	
Percentage:	100 wt%
CAS #:	1313-97-9
EC #:	215-214-1
	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
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire. 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:	None
Threshold Limit Value:	None
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.
	9. Physical and Chemical Characteristics
Color	Light blue
F erman	Powder, Granules, Pellets, Sputtering target, Custom parts
	Odorless
Odor:	
Odor: Water Solubility:	Insoluble
Odor: Water Solubility: Boiling Point:	Insoluble N/A
Odor: Water Solubility: Boiling Point: Melting Point:	Insoluble N/A 2270 °C
Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature:	Insoluble N/A 2270 °C N/A
Odor: Water Solubility: Boiling Point: Melting Point:	Insoluble N/A 2270 °C

	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	Exposure to moist air or water
Hazardous Decomposition Products:	Metal oxide fume
	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 Oral- > 5000 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	Low No No
Notes:	
	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 Shipping Name:	N/A
	15. Regulatory Information
See 202 Esterna de Hanandaux	No
Sec 302 Extremely Hazardous:	
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	N/A

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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