

LTS Research Laboratories, Inc. Safety Data Sheet Lutetium Nickel Oxide

1. Product and Company Identification		
Trade Name:	Lutetium nickel oxide	
Chemical Formula:	LuNiO ₃	
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:	Danger	
Hazard Statements:	H350: May cause cancer	
Hazard Statements:	H372: Causes damage to organs through prolonged or repeated	
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3. Composition		
Chemical Family:	Ceramic	
Additional Names:	None	
Lutetium oxide (Lu ₂ O ₃):		
Percentage:	0-100 wt%	
CAS #:	12032-20-1	
EC #:	234-764-3	
Nickel oxide (Ni ₂ O ₃):		
Percentage:	0-100 wt%	
CAS #:	1313-99-1	
EC #:	215-215-7	
	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	
	- Research	
Flammability:	Non-flammable bonatorias, Inc.	
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. 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:	Handle under dry protective gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry	
	inert gas. 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	
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8. Exposure Controls and Personal Protection		
Permissible Exposure Limits: Threshold Limit Value:	1 mg/m ³ as Ni, long-term value 0.2 mg/m ³ as Ni inhalable fraction, long-term value	
Special Equipment: Respiratory Protection:	None Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	
Protective Gloves: Eye Protection: Body Protection:	Rubber gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
9. Pl	hysical and Chemical Characteristics	
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight: Stability:	White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A N/A N/A N/A N/A N/A N/A N/A Stable under recommended storage conditions	
Reacts With: Incompatible Conditions: Hazardous Decomposition Products:	Water, Mineral acids, Oxidizing agents Water/moisture Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic:	May cause irritation May cause irritation May cause irritation May cause irritation Causes damage to the lung, the kidneys, the blood, the bladder and the immune system through prolonged or repeated exposure. Route of exposure: Inhalative.	
Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A	
Median Lethal Dose:	N/A	
Carcinogen: Nickel Oxide:	IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans.NTP-K: Known to be carcinogenic: sufficient evidence from human studies.	

	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 Shipping Name:	N/A
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes: Nickel oxide
Sec 313 Toxic Chemicals:	

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:

07/13/2015