

LTS Research Laboratories, Inc. Safety Data Sheet Erbium Nickel Alloy

	1. Product and Company Identification
Trade Name:	Erbium Nickel Alloy
Chemical Formula:	ErNi
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:	 H228: Flammable solid. H260: In contact with water releases flammable gases which may igni spontaneously. H317: May cause an allergic skin reaction. H351: Suspected of causing cancer. H372: Causes damage to organs through prolonged or repeated exposure: Inhalative.
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Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
	P231+P232: Handle under inert gas. Protect from moisture.
	P240: Ground/bond container and receiving equipment.
	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection.
	P363: Wash contaminated clothing before reuse.
	P370+P378: In case of fire: Use special powder for metal fire for
	extinction.
	P402+P404: Store in a dry place. Store in a closed container.
	P405: Store locked up.
	P501: Dispose of contents/container in accordance with
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	local/regional/national/international regulations.
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Health:	1
HMIS Health Ratings (0-4): Health: Flammability: Physical:	

3. Composition		
Chemical Family:	Alloy	
Additional Names:	N/A	
Erbium (Er):		
Percentage:	0-100 wt%	
CAS #:	7440-52-0	
EC #:	231-160-1	
Nickel (Ni):		
Percentage:	0-100 wt%	
CAS #:	7440-02-0	
EC #:	231-111-4	
	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.	
	Seek immediate medical attention.	
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce	
	vomiting or give anything by mouth to an unconscious person. Seek	
Q1 :	immediate medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
Even	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
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	5. Firefighting Measures	
– Flammability:	Non-flammable, except as powder	
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Extinguishing Media:	Do not use water for metal fires – special 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	
L	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. Handle under dry protective gas	
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Permissible Exposure Limits: Threshold Limit Value: Special Equipment: Respiratory Protection:	1 mg/m ³ as Ni, long-term value 0.015 mg/m ³ as Ni, long-term value None
Special Equipment:	
	None
	Use a recommended dust respirator or mask. Only use equipment
	tested and approved under appropriate government standards
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	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, halogens, water, acids, acid chlorides
Incompatible Conditions:	Moisture
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:	Causes damage to the lung, the kidneys and liver through prolonged
	exposure.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC-2B: Possibly carcinogenic to humans: limited evidence in human in the absence of sufficient evidence in experimental animals. NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of carcinogenicity from epidemiologic studies.
	12. Ecological Information

Aquatic Toxicity:	Moderate
Persistent Bioaccumulation Toxicity:	No

	13. Disposal Considerations
Dispose of in accordance with local, s	state, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only
Hazard Class: Packing Group: UN Number:	4.1 Flammable solids II UN3178
Proper Shipping Name:	Flammable solid, inorganic, N.O.S (Erbium Nickel Alloy) 15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	N/A Yes
	16. Other Information es, no.

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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