

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

1. Product and Company Identification

Trade Name: Nickel Yttrium alloy

Chemical Formula: NiY

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 (powder)

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H372 Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalative

Precautionary Statements: P210 Keep away from heat/sparks/flame. No smoking.

P240 Ground/bond container and receiving equipment. P260 Do not breathe dust/fume/gas/mist/vapors/spray

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P241: Use explosion-proof electrical/ventilating/lighting/equipment

P363 Wash contaminated clothing before reuse

P405 Store locked up

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:

Flammability:

Powder

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Flammability:

Physical:

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3. Composition	
Chemical Family: Additional Names:	Rare Earth Alloy None
Nickel (Ni):	
Percentage:	0-100 wt.%
CAS #:	7440-02-0
EC #:	231-111-4
Yttrium (Y):	
Percentage:	0-100 wt%
CAS #:	7440-65-5
EC #:	231-174-8
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Supply fresh air and if required, provide artificial respiration. Seek
	medical attention.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek immediate medical advice.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Consult a doctor.
	5. Firefighting Measures
Flammability:	Flammable as powder
Extinguishing Media:	Special powder for metal fires. Do not use water or carbon dioxide.
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 adequate
	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. Keep away from ignition sources.
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
*** 1 07	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
Ventilation:	compressed air. Protect against electrostatic charges. Provide sufficient ventilation to maintain concentration at or below
, chiliation.	threshold limit.
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8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 1 mg/m³ as Ni, ceiling limit value

Threshold Limit Value: 0.015 mg/m³ as Ni, respirable, long-term value

1 mg/m³ as Y, long-term value

Special Equipment: None

Respiratory Protection: 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: Nitrile rubber, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

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:
Water Solubility:
Boiling Point:
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
N/A
N/A
N/A
N/A

Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts with: Oxidizing agents

Incompatible Conditions: Air, Water/moisture, Halogens. Hazardous Decomposition Products: Nickel oxides, Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes irritation

Skin: May cause irritation or allergic reaction

Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: Causes damage to the lung, the kidneys and the liver through prolonged

or repeated exposure

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A
Median Lethal Dose: N/A

Carcinogen: Suspected of causing cancer

IARC-2B, NTP-R, ACGIH-A5

12. Ecological Information

Aquatic Toxicity: Moderate
Persistent Bioaccumulation Toxicity: No
Very Persistent, Very Bioaccumulative: No

Notes: Do not allow to reach ground water

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group:

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Nickel Yttrium powder)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

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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