

LTS Research Laboratories, Inc. Safety Data Sheet Nickel Metal

1. Product and Company Identification

Trade Name: Nickel metal

Chemical Formula: Ni

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

H350: May cause cancer

H372: Causes damage to organs through prolonged or repeated

exposure

H412: Harmful to aquatic life with long lasting effects

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood

P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P240: Ground/bond container and receiving equipment

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

P260: Do not breathe dust/fume/gas/mist/vapors/spray

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

handling

P270: Do not eat, drink, or smoke when using this product

P272: Contaminated work clothing should not be allowed out of the workplace

P273: Avoid release to the environment.

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

protection

P281: Use personal protective equipment as required

P363: Wash contaminated clothing before reuse

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water P308+P313: IF exposed or concerned: Get medical advice/attention P332+P313: If skin irritation occurs: Get medical advice/attention P370+P378: In case of fire: Use CO2, dry chemical, or foam for

extinction

P405: Store locked up

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Powder Pieces & larger

Health: 1 Flammability: 3 0 0

1 Physical:

3. Composition

Chemical Family: Metal Additional Names: None

Nickel (Ni):

Percentage: 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 Supply fresh air and if required, provide artificial respiration. Seek Inhalation: 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 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. Protect against electrostatic charges. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.5 mg/m³ as Ni, long term value Threshold Limit Value: 1.5 mg/m³ as Ni, 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. 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	Silver grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	2730 °C
Melting Point:	1455 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	8.908 g/cc (74.337 lbs/gal)
Molecular weight:	58.6934 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts with:	Acids, Oxidizing agents, Sulfur compounds, Hydrogen gas, Oxygen,
	Methanol, organic solvents, Aluminum, Fluorine, Ammonia
Incompatible Conditions:	N/A
Hazardous Decomposition Products:	Nickel oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause an allergic skin reaction
Ingestion:	May cause irritation
Inhalation:	Causes damage to organs through prolonged or repeated exposure
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:	LD50 Oral->9000 mg/kg for rat by mouth
Carcinogen:	Suspected of causing cancer
	IARC-2B: Possibly carcinogenic to humans
	IARC-Group 1: Carcinogenic to humans
	NTP-RAHC: Reasonably anticipated to be a human carcinogen
	12. Ecological Information
Aquatic Toxicity:	Harmful to aquatic life with long lasting effects

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

Packing Group:

UN Number: UN3089

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

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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