

LTS Research Laboratories, Inc. Safety Data Sheet

Nickel Copper Alloy

1. Product and Company Identification

Trade Name: Nickel copper alloy

Chemical Formula: Ni/Cu

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

H317: May cause an allergic skin reaction H319: Causes serious eye irritation H335: May cause respiratory irritation H351: Suspected of causing cancer

H372: Causes damage to organs through prolonged or repeated

exposure

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

smoking

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

protection

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

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): Powder Bulk Health: 1 0

Flammability: 3 0 Physical: 1 0

3. Composition	
Chemical Family: Additional Names:	Metal alloy None
Nickel (Ni):	
Percentage:	0-100 wt%
CAS #:	7440-02-0
EC #:	231-111-4
Copper (Cu):	0.400
Percentage:	0-100 wt%
CAS #: EC #:	7440-50-8 231-159-6
	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
Eyes:	contaminated clothing. 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:	Flammable as powder only
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder 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: 1 mg/m³ as Ni, long-term value

1 mg/m³ as Cu dusts and mists, long-term value

0.1 mg/m³ as Cu fume, long-term value

Threshold Limit Value: 1 mg/m³ as Cu dusts and mists, long-term value

0.2 mg/m³ as Cu fume, 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 Silver

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless
Water Solubility: Insoluble
Boiling Point: N/A

Melting Point:

N/A

Research

N/A

N/A

N/A

Autoignition Temperature: N/A
Density: N/A
Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Halogens, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Nickel oxides, Metal oxide fumes

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: >5000 mg/kg for rat by mouth as Cu

IARC-2B: Possibly carcinogenic to humans: limited evidence in human Carcinogen:

> in the absence of sufficient evidence in experimental animals. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance.

> NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of

carcinogenicity from epidemiologic studies.

ACGIH A5: Not suspected as a human carcinogen: Not suspected as a human carcinogen on the basis of properly conducted epidemiologic studies in humans. Studies have sufficiently long follow-up, reliable exposure histories, sufficiently high dost, and adequate statistical power to conclude that exposure to the agent does not convey a significant risk of cancer to humans. Evidence suggesting a lack of carcinogenicity in experimental animals will be considered if it is supported by other relevant data.

12. Ecological Information

Aquatic Toxicity:

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:

Notes:

High

No No

Toxic to aquatic life.

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies.

Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment.

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 desensitised

explosives

Packing Group: III UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Nickel copper alloy)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A

Sec 313 Toxic Chemicals: Yes, Nickel, Copper.

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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