

LTS Research Laboratories, Inc. Safety Data Sheet Nickel Iron Copper Molybdenum Alloy

1. Product and Company Identification Trade Name: Nickel iron copper molybdenum alloy Chemical Formula: Ni/Fe/Cu/Mo 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 H319: Causes serious eye irritation H335: May cause respiratory irritation H351: Suspected of causing cancer

	1	s damage to organs through prolonged or repeated
Precautionary Statements:	smoking P280: Wear j protection P260: Do no P501: Dispos	away from heat/sparks/open flames/hot surfaces – No protective gloves/protective clothing/eye protection/face t breathe dust/fume/gas/mist/vapours/spray se of contents/container in accordance with l/national/international regulations
HMIS Health Ratings (0-4): Health:	Powder 1	Bulk 0

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Flammability:

Physical:

3. Composition		
Chemical Family:	Metal alloy	
Additional Names:	None	
Nickel (Ni):		
Percentage:	0-100 wt%	
CAS #:	7440-02-0	
EC #:	231-111-4	
Iron (Fe):		
Percentage:	0-100 wt%	
CAS #:	7439-89-6	
EC #:	231-096-4	
Copper (Cu):		
Percentage:	0-100 wt%	
CAS #:	7440-50-8	
EC #:	231-159-6	
Molybdenum (Mo):		
Percentage:	0-100 wt%	
CAS #:	7439-98-7	
EC #:	231-107-2	
	201 107 2	
	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	
Skiii.	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
L'905.	contact lenses if present and easy to do. Continue rinsing	
	5. Firefighting Measures	
- Flammability:	Flammable as powder only	
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, 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	
	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. Ex	xposure Controls and Personal Protection		
Permissible Exposure Limits:	1 mg/m ³ as Ni, long-term value		
	1 mg/m ³ as Cu dusts and mists, long-term value		
	0.1 mg/m ³ as Cu fume, long-term value		
Threshold Limit Value:	1 mg/m ³ as Cu dusts and mists, long-term value		
	0.2 mg/m ³ 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	Metallic grey		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	N/A		
Melting Point:	N/A N/A		
Flash Point:	N/A		
Autoignition Temperature:	N/A N/A		
Density: Molecular weight:	N/A N/A		
	11/A		
	10. Reactivity		
Stability: Boosts With	Stable under recommended storage conditions		
Reacts With:	Acids, Halogens, Oxidizing agents		
Incompatible Conditions:	None Nickel oxides, Metal oxide fumes		
Hazardous Decomposition Products:			

11. Toxicological Information

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Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/Å	
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	
Very Persistent, Very Bioaccumulative:	No	
Notes:	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. The bonatorias, Inc.	
	Also poisonous for fish and plankton in water bodies.	
	13. Disposal Considerations	
Dispose of in accordance with local, state	, national, and international regulations.	
	14. Transportation Data	
Hazardous:	Hazardous as powder only.	
<	FLANMABLE SOLID	
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:		
ec 304 Reportable Quantities: N/A		
Sec 313 Toxic Chemicals:	Components	

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.

Document Last Revised:

08/25/2015

