



WHITE COPPRClay

Material Safety Data Sheet

Section I

Manufacturer's name:	Emergency Telephone Number:
Metal Adventures Inc.	910-620-8751
Address:	Telephone Number for Information:
202 Laurel Drive Wilmington, NC 28401	910-620-8751
Date Prepared:	Signature of Preparer:
November 27, 2013	/William G. Struve/

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Wt. % (optional)
Copper Powder (CAS 7440-50-8)	1 mg/m ³	1 mg/m ³	60-80%
Nickel Powder (CAS 7440-02-0)	1 mg/m ³	1.5 mg/m ³	15 25%
Non-hazardous, proprietary components	N/A	N/A	Remainder

The non-hazardous components are all generally recognized as safe (GRAS) for addition to food and pharmaceuticals by the US FDA.

Section III—Physical/Chemical Characteristics

Boiling Point	Unknown	Specific Gravity (H ₂ O = 1)	4
Vapor Pressure (mm Hg)	Unknown	Melting Point	Unknown, <0C
Vapor Density (AIR = 1)	Unknown	Evaporation Rate (Butyl Acetate = 1)	Unknown
Solubility in Water	Hazardous components are insoluble, non-hazardous components are soluble in water.		
Appearance and Odor	Chocolate brown colored material with clay consistency and with no odor		

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Non-flammable			
Extinguishing Media			
Special Fire Fighting Procedures			
None			
Unusual Fire and Explosion Hazards			
None			

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	None

Incompatibility (Materials to Avoid)

Acids, bases, oxidizers, azides, ethylene oxide, acetylene, and ammonium nitrate.

Hazardous Decomposition or Byproducts

Metal fumes may be produced in a burning building.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	None when kept moist.	Possible.	Possible.

Health Hazards (Acute and Chronic)

Persons with a known nickel allergy should not handle this product. Generally not hazardous in normal handling, however good laboratory procedures should always be used. Avoid long term exposure to skin. Avoid drying product to minimize dust formation.

Acute:

Copper powder component: LD₅₀ intraperitoneal mouse 3.5 mg/Kg

Nickel powder component: LD₅₀ 250 mg/Kg (rat)

Dermatitis and/or allergic reaction may result from exposure to the nickel component of this mixture.

Chronic:

The nickel component within this product is found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be, or suspected to be, a cancer-causing agent by these agencies.. Chronic exposure to components of this product may aggravate those with pre-existing liver or kidney disease.

Emergency and First Aid Procedures

SKIN: Wash exposed area with soap and water. If irritation persists seek medical attention.

EYES: Wash with plenty of water for at least 15 minutes, lifting lids occasionally. Seek medical attention.

INJECTION: Give 2-3 glasses of water or milk. Vomiting may occur spontaneously, but it is not necessary to induce. Never give liquids to an unconscious person. Seek medical attention.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Clean area with soap and water. Minimize the generation of dust.

Waste Disposal Method

Copper powder is not listed as hazardous waste, or under SARA reporting requirements. Copper and nickel are listed in the CERCLA Community Right-to-know list and have reportable quantities of 5,000 and 100 pounds, respectively. Follow local, state, and country disposal regulations which may be more restrictive than US federal regulations.

Precautions to Be Taken in Handling and Storing

Wear protective gloves when handling large quantities. Wash hands with soap and water before eating or drinking to avoid contamination of food and drink with the nickel and copper powder components.

Other Precautions

Some individuals may develop sensitivity to one or more components of this product and should wear nitrile, latex, or similar gloves when handling even small quantities of this material.

Section VII—Control Measures

Respiratory Protection (Specify Type)

None necessary with the moist product.

Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical (General)	N/A	Other	N/A

Protective Gloves	Nitrile, latex or similar.	Eye Protection	None required for normal handling.
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Other Protective Clothing or Equipment None known to be required.

Work/Hygienic Practices Keep areas clean by using moist paper towels and soap when necessary. Wash hands before eating or drinking to avoid ingestion of the nickel and copper powder components.

Section VIII—Other Information

The information herein is believed to be correct and is offered in good faith to the user for consideration and investigation. No warranty, expressed or implied is made regarding the completeness or accuracy of this information. User assumes all risks and liability of any use, processing or handling of this material. Safe uses of this material remain the sole discretion of the user.