

**SECTION 1: Identification**

- 1.1 Product identifier:** Copper Nickel Alloy Powder
- 1.2 Other means of identification:** Copper Nickel Powder, CuNi 70/30 powder, Copper-Nickel (70/30), Copper Nickel C96400 or C71500
- 1.3 Recommended use of the chemical:** Powder metallurgy, Additive manufacturing
- 1.4 Supplier's details**

Name: Continuum  
Address: 27705 Dutcher Creek  
Cloverdale, CA 95425  
United States  
Contact: PERS Account # 12323  
Domestic #: 800-366-8253  
International: 801-317-0899

**SECTION 2: Hazard identification****2.1 GHS classification of the substance or mixture in accordance with: OSHA (29 CFR 1910.1200) - -**

Carcinogenicity, Cat. 1A

Sensitization, skin, Cat. 1

Eye irritation, Cat. 2

Specific target organ toxicity (repeated exposure), Cat. 1

Aquatic Toxicity, Chronic, Cat. 2

**2.2 GHS label elements, including precautionary statements****Signal word**     **Danger****Hazard determining components of labeling**

Copper

Nickel

**Hazard statement(s)**

H317    May cause an allergic skin reaction

H319    Causes serious eye irritation

H350    May cause cancer by inhalation

H372    Causes damage to organs lungs through prolonged or repeated exposure by inhalation

H411    Toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

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

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

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303 IF IN EYES: Rinse cautiously with water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

This product contains powder of a single alloyed substance.

### 3.2 Hazardous and non-hazardous components

CAS no.	Component	Concentration* (weight%)
7440-50-8	Copper	50-70
7440-02-0	Nickel	25-30

\*The specific chemical identity and/or exact percentage of the composition is estimated. Refer to a Certificate of Analysis for more detailed information on composition.

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

- |                         |  |
|-------------------------|--|
| General advice          | Consult a physician.   |
| If inhaled              | If breathed in, move person into fresh air. If not breathing, give artificial respiration.<br>Consult a physician  |
| In case of skin contact | Wash off with soap and plenty of water. Seek medical attention if irritation develops or persists  |
| In case of eye contact  | Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention if irritation develops or persists. |
| If swallowed            | Do NOT induce vomiting. Never give anything by mouth to an unconscious person.<br>Rinse mouth with water. <b>Consult a physician.</b>                        |

### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use Class D dry powder extinguishing agent.

**UNSUITABLE EXTINGUISHING MEDIA:** No data available

### 5.2 Specific hazards arising from the chemical

No data available

### 5.3 Special protective actions for fire-fighters

Wear full face, self-contained breathing apparatus and full protective clothing.

### 5.4 Further information

No data available.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear appropriate respiratory and protective equipment specified in section 8. Isolate spill area and provide ventilation. Avoid breathing dust or fume. Avoid contact with skin and eyes. Eliminate all sources of ignition.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Avoid dust formation. Use only non-sparking tools and natural bristle brushes. Do not push powder for long distances across the floor. Keep in small piles away from each other. Place in non-sparking or anti-static containers.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid formation of dust. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

**Components with workplace control parameters:**

**1. Copper (CAS: 7440-50-8)**

**OSHA/PEL:** (Inhalation) 1 mg/m<sup>3</sup> (OSHA)

**OSHA/PEL:** (Inhalation) 1 mg/m<sup>3</sup> (Cal/OSHA)

**NIOSH/REL:** (Inhalation) 1 mg/m<sup>3</sup> (NIOSH)

**2. Nickel (CAS: 7440-02-0)**

**OSHA/PEL:** (Inhalation) 1 mg/m<sup>3</sup>

**OSHA/PEL:** (Inhalation) metal 0.5 mg/m<sup>3</sup>, insoluble 0.1 mg/m<sup>3</sup>

**NIOSH/REL:** (Inhalation) Ca, 0.015 mg/m<sup>3</sup>

**8.2 Appropriate engineering controls**

When working with finely divided powders, handle under argon in a controlled, enclosed environment. Ensure adequate ventilation to maintain exposures below occupational limits. Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and sanitation

practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)



### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Impermeable gloves, protective work clothing as necessary.

### Body protection

Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Thermal hazards No data available

### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. **Do not let products enter drains.**

## SECTION 9: Physical and chemical properties

<b>Physical State</b>	Solid	<b>Appearance</b>	Powder
<b>Color</b>	Grey	<b>pH</b>	Not applicable
<b>Odor</b>	Odorless	<b>Melting point/freezing point</b>	Not applicable
<b>Odor threshold</b>	No data available	<b>Initial boiling point and boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable	<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable	<b>Upper/lower flammability limits</b>	No data available
<b>Vapor pressure</b>	No data available	<b>Upper/lower explosive limits</b>	No data available
<b>Vapor density</b>	No data available	<b>Relative density</b>	No data available
<b>Solubility</b>	Insoluble	<b>Decomposition temperature</b>	No data available
<b>Auto-ignition temperature</b>	No data available	<b>Partition coefficient n-octanol/water</b>	No data available
<b>Viscosity</b>	No data available	<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	The substance or mixture is not classified		

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No data available.
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	None under normal use conditions.
<b>10.4 Conditions to avoid</b>	Heat, flames and sparks. Dusting conditions
<b>10.5 Incompatible materials</b>	Do not store near acids, Strong oxidizing agents, Carbon dioxide (CO <sub>2</sub> )
<b>10.6 Hazardous decomposition products</b>	No data available. In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Acute toxicity

7440-02-0 Nickel	Oral	LD50	>9000 mg/kg (rat)
------------------	------	------	-------------------

<b>11.2 Skin corrosion/irritation</b>	May cause abrasive skin irritation
<b>11.3 Serious eye damage/irritation</b>	Causes serious eye irritation
<b>11.4 Respiratory or skin sensitization</b>	May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>11.5 Germ cell mutagenicity</b>	No data available
<b>11.6 Carcinogenicity</b>	OSHA specifically regulated carcinogen, nickel
<b>11.7 Reproductive toxicity</b>	No data available
<b>11.8 Summary of evaluation of the CMR properties</b>	No data available
<b>11.9 STOT-single exposure</b>	No data available
<b>11.10 STOT-repeated exposure</b>	Causes damage to the lungs through prolonged or repeated exposure by inhalation
<b>11.11 Aspiration hazard</b>	No data available

## SECTION 12: Ecological information

<b>12.1 Toxicity</b>	Very toxic to aquatic life with long lasting effects
<b>12.2 Persistence and degradability</b>	No data available
<b>12.3 Bioaccumulative potential</b>	No data available
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT and vPvB assessment</b>	No data available
<b>12.6 Other adverse effects</b>	Do not allow material to be released to the environment. No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Disposal of the product

Reuse or recycle material whenever possible. Dispose of in accordance with Federal, State and Local regulations.

### 13.2 Disposal of contaminated packaging

Dispose of in accordance with Federal, State and Local regulations.

**SECTION 14: Transport information****DOT (US)****UN Number: -****Class: -****Packing Group: -****Proper Shipping Name: -****IMDG****UN Number: -****Class: -****Packing Group: -****Proper Shipping Name: -****IATA****UN Number: -****Class: -****Packing Group: -****Proper Shipping Name: -****SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations specific for the product in question**

State Issue	CAS no.	Chemical Name
California Prop 65	7440-02-0	Nickel
Massachusetts Right to Know	7440-50-8	Copper
	7440-02-0	Nickel
New Jersey Right To Know	7440-50-8	Copper
	7440-02-0	Nickel
Pennsylvania Right To Know	7440-50-8	Copper
	7440-02-0	Nickel

**SECTION 16: Other information****16.1 Further information/disclaimer**

Copyright © 2022 Continuum Powders. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Continuum and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

**16.2 Preparation information**

Author: Jessica Enos, Iris Esserman

Revision Date: 12/12/25, v3

Supersedes Date: 11/24/25, v2

Date of Issue: 5/23/2022