



1. Product and Company Identification

-----  
Supplier

-----  
Bellman-Melcor, A Prince & Izant Co.  
7575 183rd St.  
Tinley Park, IL 60477 USA  
Telephone: 708-532-5000  
www.bellmanmelcor.com

Emergency Phone Number

-----  
CHEMTREC: Within USA and Canada 1-800-424-9300  
CHEMTREC: Outside USA and Canada 1-703-741-5970

Products: CDA 110, CDA 102

Product Use(s): Alloys for brazing and other metallurgical processes

2. Hazards Identification

-----  
Classification(s): None applicable

Label Symbol(s): None applicable

Label Signal Word(s): None applicable

Label Hazard Statement(s): None applicable

Label Precautionary Statement(s)

-----  
The acute toxicities of 98-99.9% of the product's ingredients are unknown.

3. Composition/Information on Ingredients

-----

Ingredient	CAS Number	%	Impurities
Copper	7440-50-8	98-99.9	None known
Cupric oxide	1317-38-0	<0.1-1.1	None known

-----

#### 4. First Aid Measures

##### Eye

Flush affected areas with water for at least fifteen minutes. Seek medical assistance if necessary.

##### Skin

Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical attention if necessary. Launder or dry-clean clothing before reuse.

##### Ingestion

If subject is conscious, induce vomiting. If unconscious or convulsive, seek immediate medical assistance. Do not give anything by mouth to an unconscious or convulsive person.

##### Inhalation

If signs and symptoms of toxicity are observed, remove subject from area, administer oxygen, and seek medical attention. Keep the subject warm and at rest. Perform artificial respiration if breathing has stopped.

##### Note to Physician or Poison Control Center

None of the components are acutely toxic by ingestion, nor are they absorbed through the skin. Extensive or prolonged skin contact may cause dermatitis.

#### 5. Fire Fighting Measures

##### Fire and Explosion Hazards

This product is non-flammable and non-explosive. If present in a fire or explosion, it may emit fumes of the constituent metals or their oxides.

##### Extinguishing Media

Use dry chemical. Do not use water.

##### Fire Fighting Instructions

If fighting a fire in which this product is present, wear a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

#### 6. Accidental Release Measures

##### Methods and Materials

If a finely-divided form of product is spilled, clean up spillage so as to minimize dispersion of dust. Either wet sweeping or vacuuming using HEPA filtration is recommended.

##### Personal Precautions

Avoid contact with skin, eyes, and mucous membranes.

## Environmental Precautions

---

Prevent spills from entering sewers or contaminating soil.

## 7. Handling and Storage

---

### Handling Precautions

---

No special handling precautions are required.

### Work and Hygiene Practices

---

To prevent ingestion following use of the product, wash hands and face before eating, drinking, applying cosmetics, or using tobacco. Remove contaminated clothing or protective equipment before entering eating/drinking areas.

### Storage Precautions

---

Do not store in proximity to incompatible materials (see Section #10).

## 8. Exposure Controls and Personal Protection

---

### Ingredients - Exposure Limits

---

#### Copper and Cupric Oxide

ACGIH TLVs (as Cu): 0.2 mg/m<sup>3</sup> TWA (fume); 1 mg/m<sup>3</sup> TWA (dusts and mists)

OSHA PELs (as Cu): 0.1 mg/m<sup>3</sup> TWA (fume); 1 mg/m<sup>3</sup> TWA (dusts and mists)

### Ingredients - Biological Limits

---

#### Copper and Cupric Oxide

No ACGIH BEI(s) or other biological limit(s)

### Engineering Controls

---

Use dilution or local exhaust ventilation adequate to maintain concentrations of all components and their byproducts to within their applicable standards.

### Eye/Face Protection

---

Wear eye protection adequate to prevent eye contact with finely-divided product and eye injury if product is used with a flame. Plastic-frame spectacles with side shields are recommended.

### Skin Protection

---

Wear appropriate protective gloves and clothing to prevent skin injury if the product is used with a flame and/or for prolonged or repeated contact with finely-divided forms of product. Avoid flammable fabrics.

### Respiratory Protection

---

If an exposure level to a component(s) exceeds an applicable standard, use a NIOSH-approved respirator having a configuration (facepiece, filter media, assigned protection factor, etc.) effective for the concentration of the component(s) generated. For guidance on selection and use of respirators, consult American National Standard Z88.2 (ANSI, New York, NY 10036, USA).

## 9. Physical and Chemical Properties

---

Appearance: Copper-yellow metals, various forms  
Odor: none  
Odor threshold: not applicable  
pH: not applicable  
Melting Point: >1980F./1083C.  
Freezing point: not applicable  
Boiling point/boiling range: not determined  
Flash Point: not applicable  
Autoignition Point: not applicable  
Flammability Class: not applicable  
Lower Explosive Limit: not applicable  
Upper Explosive Limit: not applicable  
Vapor pressure: not applicable  
Vapor density: not applicable  
Evaporation Rate: not applicable  
Relative density (H2O): approx. 8.9  
Solubility (H2O): insoluble  
Oil-water partition coefficient: not applicable  
Decomposition temperature: not applicable  
Viscosity: not applicable

## 10. Stability and Reactivity

---

Reactivity: none reasonably foreseeable  
Stability: stable  
Hazardous Polymerization: will not occur  
Risk of Dangerous Reactions: copper can form an unstable acetylide in contact with acetylene gas.

### Incompatible Materials

---

Acetylene; ammonium nitrate; halogens; ethylene oxide; chlorine trifluoride; hydrazine mononitrate; hydrazoic acid; hydrogen sulfide; peroxides; azides; bromates, chlorates, and iodates of alkali and alkali earth metals.

### Hazardous Decomposition Products

---

Heating to elevated temperatures may liberate metal/metal oxide fumes.

## 11. Toxicological Information

---

This product has not been tested for toxicology by the manufacturer.

### Ingredients - Toxicological Data

---

Copper	LD50: No data available	LC50: No data available
Cupric Oxide	LD50: No data available	LC50: No data available

### Primary Routes(s) of Entry

---

Ingestion; inhalation.

#### Eye Hazards

Eye contact with finely-divided forms of this product may cause irritation, conjunctivitis, and/or ulceration of the cornea.

#### Skin Hazards

Skin contact with this product in finely-divided forms may cause irritation, discoloration, and/or contact dermatitis.

#### Ingestion Hazards

Ingestion of this product in finely-divided forms may cause nausea, vomiting, and gastrointestinal irritation.

#### Inhalation Hazards

Inhalation of toxicologically-significant quantities of the components is unlikely when the product is used in accordance with instructions and specified protective measures (see Section #8).

#### Symptoms Related to Overexposure

Pre-existing pulmonary diseases (e.g., bronchitis, asthma) may be aggravated by inhalation overexposure, particularly as fume.

#### Delayed Effects from Long Term Overexposure

Chronic overexposure by inhalation and/or ingestion may aggravate pre-existing diseases of the liver, kidneys, and gastrointestinal system.

#### Carcinogenicity

The product contains no chemicals classified as potential or demonstrated carcinogens by IARC, NTP, or OSHA.

#### Germ Cell Mutagenicity

The product contains no chemicals determined to be germ cell mutagens.

#### Reproductive Effects

The product contains no chemicals determined to be damaging to fertility or to the unborn child.

#### Acute Toxicity Estimates

LD50 (oral): no data available  
LD50 (dermal): no data available  
LC50: no data available

Interactive Effects of Components: no data available

#### 12. Ecological Information

No ecological data is available for the product or any of its components.

Ozone Depletion Potential: This product contains no ingredients listed in the Annexes to the Montréal Protocol on Substances that Deplete the Ozone Layer.

### 13. Disposal Considerations

-----

Do not discharge waste product into sanitary or storm sewers or allow it to contaminate soil. Consult applicable Federal, State/ Provincial, and local regulations.

### 14. Transport Information

-----

Transport is not regulated by USDOT, TDG (Canada), IATA, or IMO.

### 15. Regulatory Information

-----

#### United States Regulatory Information

-----

All components of this product are listed on the EPA's TSCA inventory.

SARA Hazard Classes: Chronic Health Hazard

#### SARA Section 313 Notification

-----

This product contains these components in concentrations >1% (>0.1% for carcinogens) subject to Section 313 of the Emergency Preparedness and Community Right-to-Know Act (EPCRA) of 1986 and of 40CFR, Part 372:

1. Copper (CASRN 7440-50-8)

#### Canadian Regulatory Information

-----

All components of this product are listed on either the Domestic Substances List (DSL) or the Nondomestic Substances List (NDSL).

WHMIS Class(es) and Division(s): D2B

Components on Ingredients Disclosure List:

1. Copper, elemental (CASRN 7440-50-8)

This product has been classified according to the hazard criteria of the CPR and this SDS contains all of the information required by the CPR.

### 16. Other Information

-----

#### HMIS Ratings

-----

Health - 2\* (moderate chronic hazard)

Flammability - 1 (slight hazard)

Physical Hazard - 0 (minimal hazard)

PPE - see Note

Note: Bellman-Melcor recommends use of protective eye wear and gloves (Personal Protection Index "B") as standard PPE. HMIS recommends that its ratings be used only in conjunction with a fully implemented HMIS program, and that specific PPE codes be created by the user, who is familiar with the actual conditions under which the product is used. We cannot anticipate every condition of the product's use, and it is the user's responsibility to evaluate the hazards pertinent to its specific operations, and to determine the specific PPE required.

NFPA Ratings

-----  
Health - 2      Flammability - 1      Reactivity - 0

Preparation Information

-----  
Date of Preparation: 1 Jan 2015  
Date of Prior SDS: not applicable

Disclaimer

-----  
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Bellman-Melcor, A Prince & Izant Company