

# MATERIAL SAFETY DATA SHEET

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## SECTION I – Product/Company Identification

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**Product/Chemical Name:** Bronze Powder      Date Prepared: 11/16/2006  
**General Use:** Metal Filler  
**From:** ArtMolds., 18 Bank Street, Summit, NJ 07901 Phone (908) 273-5401

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## SECTION II – Composition/Information on Ingredients

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Component	CAS Number	ACGIH TLV	Exposure Limits OSHA PEL	Weight Percent (%)
Copper	7440-50-8	0.1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	50-90
Tin	7440-31-5	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	10-50

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## SECTION III – Hazards Identification Emergency Overview

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**Target Organs:** Respiratory system, skin, eyes, gastrointestinal system, kidneys, liver, and cardiovascular system.

**Primary Entry Routes:** Inhalation, ingestion, skin or eye contact

**Acute Effects**

**Inhalation:** may cause nasal ulceration and perforation

**Skin:** Skin contact may cause irritation and sensitization dermatitis.

**Ingestion:** If swallowed symptoms may include: gastrointestinal irritation such as, nausea, vomiting diarrhea and collapse. Acute poisoning is characterized by, jaundice, hypotension and convulsions.

**Carcinogenicity:** This product contains no components listed as carcinogenic by IARC, NTP, and OSHA 1910(Z).

**Chronic Effects:** Unknown

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### Potential Health Effects

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**Inhalation:**

Excessive concentrations of a nuisance dust may cause nuisance condition such as coughing, sneezing, and nasal irritation.

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## SECTION IV – First Aid Measures

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**Inhalation:** Remove source(s) of contamination and move victim to fresh air.  
Contact physician immediately.

**Eye Contact:** Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water.

**Ingestion:** Do not induce vomiting. Seek medical attention immediately.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

<b>HMIS</b>	
<b>H</b>	20
<b>F</b>	0
<b>R</b>	

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## SECTION V – Fire Fighting Measures

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**Flash Point:** N/A

**Flash Point Method:** N/A

**Flammability Classification:** Non-Flammable

**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam

**Unusual Fire or Explosion Hazards:** None

**Fire-Fighting Instructions:** Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce hydrogen and noxious copper, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

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## SECTION VI – Accidental Release Measures

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**Spill /Leak Procedures:** Sweep gently to avoid dust cloud formation

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### 7. Handling and Storage

**Handling Precautions:** Minimize breathing of dusts and avoid prolonged or repeated contact with skin. Wear proper protective equipment.

**Storage Requirements:** Store in well-ventilated area.

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### 8. Exposure Controls/Personal Protection

**Engineering Controls:**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear protective gloves and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

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## 9. Physical and Chemical Properties

<b>Product Form:</b>	Bulk Solid	<b>Vapor Density (Air=1):</b>	Not Determined
<b>Appearance and Odor:</b>	Reddish to gold color, odorless	<b>Water Solubility:</b>	Insoluble
<b>Vapor Pressure:</b>	1.0 mm of Hg @ 20°C	<b>Boiling Point:</b>	Not Determined
<b>Specific Gravity:</b>	8.0	<b>Evaporation Rate:</b>	Not Determined

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## 10. Stability and Reactivity

**Stability:** This product is stable at room temperature.

**Chemical Incompatibilities:** Strong alkalis, chlorates, bromates, turpentine, mineral acids, amines.

**Polymerization:** Hazardous polymerization cannot occur.

**Hazardous Decomposition Products:** Thermal oxidative decomposition can produce; hydrogen and noxious copper.

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## 11. Toxicological Information

None Established

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## 12. Ecological Information

None Established

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## 13. Disposal Considerations

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

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## 14. Transport Information

DOT	IATA	IMDG
Not Classified	Not Classified	Not Classified

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## 15. Regulatory Information

**EPA Regulations:**

SARA 311/312 Codes:

This product contains the following chemicals that are subject to release reporting requirements under section 313 of SARA Title III.



<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Copper	7440-50-8	90 Max.

SARA Toxic Chemical (40 CFR 372.65):

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Copper	7440-50-8	90 Max.

CERCLA Hazardous Substance (40 CFR 302.4) listed specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112: None

<u>Components That Require Reporting</u>	<u>RQ</u>	<u>% of Reportable Component</u>
Copper	5000 lb.	90 Max

**TSCA Inventory Status (40 CFR710):** All components of this formulation are listed in the TSCA Inventory.

**California Proposition 65:** This product contains **no chemicals**, which in the State of California has found to cause Cancer, birth defects or other reproductive harm

**Massachusetts Right To Know, Substance List:**

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Copper	7440-50-8	90 Max.
Tin	7440-31-5	50 Max

**Pennsylvania Right To Know, Substance List:**

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Copper	7440-50-8	90 Max.
Tin	7440-31-5	50 Max

**Disclaimer:**

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