

# MATERIAL SAFETY DATA SHEET

## BRONZE POWDER ALLOY

C.A.S. Numbers: 7440-50-8 7774-31-5

### SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT/MATERIAL:** MIPBZ\*F  
**DISTRIBUTOR:** Sokolowski Studios LLC  
**ADDRESS:** 111 Mid Valley Rd., Lake Ariel PA 18436

**TELEPHONE NUMBER:** (570) 937-9400

**EMERGENCY CONTACT:** CHEMTREC (800) 424-9300  
(703) 527-3887 (Outside the USA)  
To be used "ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICALS".

**SYNONYM:** Bronze Powder

**CAS #:** 7440-50-8 7440-31-5

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #Range</u>	<u>%</u>
Copper	7440-50-8	50 - 91
Tin	7440-31-5	9 - 50

### SECTION 3 – HAZARDS IDENTIFICATION

#### **CLASSIFICATION SYSTEM:**

The classification is based on the criteria in the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **GHS Label Elements:**

##### **Warning !**

**Causes serious eye irritation**      **May cause respiratory irritation**

##### **Prevention:**

Avoid breathing dust

Use only outdoors or in a well-ventilated area

Wash hands thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Call a POISON CENTER or doctor/physician if you feel unwell**

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

**If eye irritation persists get medical advice/attention**

**Disposal:**

Dispose of contents/container in accordance with local/national/international regulations.

**SECTION 4. FIRST AID MEASURES**

**INHALATION:** Remove to fresh air. Lay patient down. Cover with blanket.

**INGESTION:** Give 200-300 mL water to drink. DO NOT induce vomiting.

**SKIN CONTACT:** For skin exposure, remove contaminated clothing and wash with soap and water.

**EYE CONTACT:** If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes.

**MEDICAL NOTES:** If any adverse symptoms persist seek immediate medical attention.

**SECTION 5. FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, ABC extinguisher, or water spray.

**SPECIAL FIRE FIGHTING PROCEDURES:** Material is non-flammable. Use firefighting measures appropriate to surrounding materials..

**PERSONAL PROTECTIVE EQUIPMENT:** Wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Spilled material may produce dust hazard if not handled correctly. Wear appropriate personal protective equipment: coveralls, gloves & eye protection..

**METHODS FOR CLEAN UP:** Contain spillages and clean up with vacuum or conventional tools and attempt to minimize dusting. Place in a suitable container for recycling or disposal in accordance with local and national waste regulations.

**METHOD OF DISPOSAL:** Place in a suitable container for recycling or disposal in accordance with local, state, and/or federal regulations.

**SECTION 7. HANDLING AND STORAGE**

**HANDLING:** Only use in a well-ventilated area and prevent the creation of dusts. If concentrations exceed the occupational exposure limits, use suitable respiratory protection.

**STORAGE:** Store in a cool, dry, well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep lids of container tightly sealed.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **OCCUPATIONAL EXPOSURE STANDARDS:** 8-hour TWA

1. Copper Powder as dust and mist  
OSHA PEL: 1 mg/m<sup>3</sup> and ACGIH TLV: 1 mg/m<sup>3</sup>
2. Tin Powder as dusts  
OSHA PEL: 2 mg/m<sup>3</sup> 8-hour TWA and ACGIH-TVL: 2 mg/m<sup>3</sup> 8-hour TWA

**OCCUPATIONAL EXPOSURE CONTROLS:** All personal protective equipment, including respiratory equipment, used to control exposure to hazardous substances must be selected to meet the requirements of national personal protective equipment regulations.

**VENTILATION:** To keep below the U.S.A. OSHA and EU exposure limits, use general dilution type ventilation.

### **PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Cartridge type particulate filter respirator or dust-mask conforming to U.S.A. NIOSH. Refer to Respiratory Protective Devices approved by NIOSH under 42 CFR 84 and the appropriate European standard.

**HAND PROTECTION:** Wear if skin contact is probable and skin is sensitive.

**EYE PROTECTION:** Safety glasses or goggles.

**SKIN PROTECTION:** Long sleeve shirt(s) if contact is probable and skin is sensitive.

**ENVIRONMENTAL PROTECTION:** Do not allow to enter drains or watercourses.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Yellowish to Tan Color      **ODOR:** None

	<u>Copper</u>	<u>Tin</u>
<b>Boiling Point:</b>	2567°C	2207°C
<b>Melting Point:</b>	1083°C	232°C
<b>Specific Gravity:</b>	8.94	7.31
<b>Vapor Pressure:</b>	NA	NA
<b>Vapor Density:</b>	NA	NA
<b>Evaporation Rate:</b>	NA	NA
<b>Solubility in water:</b>	Insoluble	Insoluble
<b>Volatile by Volume, %:</b>	0	0
<b>Molecular Weight:</b>	63.54	118.7

**SECTION 10. STABILITY AND REACTIVITY**

The Material is stable

**CONDITIONS & MATERIALS TO AVOID:**

1. Temperatures above 100°C while in the presence of moist air.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Metal fumes will be released if heated above the elements melting point

**HAZARDOUS POLYMERIZATION:** Will Not Occur

**SECTION 11. TOXICOLOGICAL INFORMATION****SIGNS, SYMPTOMS, AND EFFECT OF OVER EXPOSURE:**

**Eyes:** Redness, tearing, itching, burning and conjunctivitis

**Ingestion:** Irritation and burning sensations of mouth and throat, nausea, abdominal pain with possible diarrhea.

**Inhalation:** Irritation of the mucous membranes, coughing, wheezing, shortness of breath. Prolonged exposure may cause metallic taste.

**ACUTE HEALTH EFFECTS:**

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

**SECTION 12. ECOLOGICAL INFORMATION**

None Established

**SECTION 13. DISPOSAL CONSIDERATIONS**

**PACKAGING:** Dispose of in accordance with procedures applying to the disposal of the product.

**PRODUCT:** Dispose of surplus and contaminated materials (including sawdust) at an approved landfill or in accordance with other national or regional provisions.

**SECTION 14. TRANSPORTATION INFORMATION**

**US DOT:** Not a hazardous material for transportation.

**DOT REGULATIONS:**

**Hazardous Class:** None

**LAND TRANSPORT ADR/RID (cross-border)**

**Hazardous Class:** None

**Maritime transport: IMDG:**

**Hazardous Class:** None

**Marine Pollutant:** No

**SECTION 15. REGULATORY INFORMATION**

U.S. EPA EPCRA Section 313 Reportable Product – (contains copper)

U.S. EPA Reportable Quantity: 5,000 lbs. (2,270 kg)

**SECTION 16. OTHER INFORMATION**

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge. However, this is not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.

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Reviewed by Manufacturer: 04/12 (Revision 3)

