

SAFETY DATA SHEET

SECTION 1. Identification of the Substance and Manufacturer

Product: **Bronze Powder (Alloy)**

Stock Number: BZ25P, BZ40P, BZ5890,
BZ5657C, BZZN

Supplier: Chemical Store, Inc.
1059 Main Avenue
Clifton, NJ 07011 U.S.A.
+1(973) 405-6248 (Phone)

24- Hour Emergency: +1(973) 420-4972

Web site: www.ChemicalStore.com

Local Contact, (if applicable):

SECTION 2. Hazard Identification

HEALTH HAZARDS

Acute Toxicity, Oral – Category 4
Acute Toxicity, Inhalation – Category 4
Irritant, Eye – Category 2B
Respiratory – Category 1A

ENVIRONMENTAL HAZARDS

Aquatic Acute Toxicity – Category 1
Aquatic Chronic Toxicity – Category 1

HAZARD STATEMENTS:

H302– Harmful if swallowed or if inhaled
H335 – May cause respiratory irritation
H320 – Causes eye irritation
H410 – Very toxic to aquatic life with long lasting effects

GHS LABEL ELEMENTS – HAZARD PICTOGRAMS (GHS-US)



Signal Word: **Danger**

GHS Precautionary Statements:

P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment
P284 - Wear respirator protection
P301 + P312– IF SWALLOWED: Rinse mouth with water. Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P391 – Collect Spillage
P501 - Dispose of contents/container in accordance with local/national/international regulations

SECTION 3. Composition/Information of Ingredients

Ingredient	%	EC Number	CAS No.
Copper	50 – 91	231-159-6	7440-50-8
Tin	9 -- 50	231-141-8	7440-31-5
Zinc	0 – 10	231-175-3	7440-66-6

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 ₂ , 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 ³ and ACGIH TLV: 1 mg/m ³ 2. Tin Powder as dusts OSHA PEL: 2 mg/m ³ 8-hour TWA and ACGIH-TLV: 2 mg/m ³ 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
	Copper		Tin
Boiling Point:	2567°C		2207°C
Melting Point:	1083°C		232°C
Specific Gravity:	8.94		7.31
Vapor Pressure:	NA		NA
Vapor Density:	NA		NA
Evaporation Rate:	NA		NA
Solubility in water:	Insoluble		Insoluble
Volatile by Volume, %:	0		0
Molecular Weight:	63.54		118.7

SECTION 10. Stability and Reactivity

Stable X Unstable _____

Conditions & Materials to Avoid:

- 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

Toxic to fish and other aquatic organisms.

Prevent from entering drains, sewers, and surface water.

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 Regulated. Class 9 materials do not require placarding for U.S.A. ground transport (49 CFR 172.504(f)(9)). *Exceptions*, except when all or part of the transportation is by vessel, the requirements specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car, or aircraft (49 CFR 171.4(c)). Permissive labelling is allowed by U.S.A. DOT (49 CFR 172.401(c)).

Proper Shipping Name: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Copper), Class 9, PG III, MARINE POLLUTANT

. Land transport ADR/RID (cross-border) Excluding U.S.A. Ground Transport



- **ADR/RID class:** 9 (M7) Miscellaneous dangerous substances and articles
- **Danger code (Kemler):** 90
- **UN Number:** 3077
- **Packaging group:** III
- **Hazard label:** 9
- **Proper shipping name:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Copper)
- **Tunnel Restriction Code:** E

. Maritime transport IMDG:

- **IMDG Class:** 9
- **UN Number:** 3077
- **Hazard Label:** 9
- **Packaging group:** III
- **Marine pollutant:** yes
- **Proper shipping name:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Copper)
- **EmS Code:** F-A, S-F

. Air transport ICAO-TI and IATA-DGR:

- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3077
- **Hazard Label:** 9
- **Packaging group:** III
- **Proper shipping name:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Copper)

SECTION 15. Regulatory Information

U.S. EPA EPCRA Section 313 Reportable Product

TSCA Inventory Status" (40 CFR 710) All formulation components are listed in the TSCA Inventory, under 40 CFR720.30.

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

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.

Revision 8.1 Note: Signal Word changed from Warning to Danger. Pictogram for respiratory hazard added.