

MATERIAL SAFETY DATA SHEET

PRODUCT 61A, 83A, 103A, 153A, 10P, E-10, 12HP, 23HP, 25P, 30P, 31HP, 34HP, 40P, 46HP, 60P, 68HP, 90P, 140P, 145P, 150P, 250P, 101, 201, 301, 5070, 5076, 5358, 5365, 5448, 5448A, 5449, 5463, 5472, 5481, 5482, 5502, 5503, 5504, 5550, 5579, 5579D, 5632, 5632A-K, 5657D, 5673, 5681, 5730, 5731, 5732, 5771, 5773, 5790, 5850, 5867, 5875, 5878, 5880, 5885X, 5890, 5890X, 6950, 6967, 6980, 6985, 8199, PA9010AS, XP1116, XP1208, XP1278, XP1692, XP1693, HS-4000, Y410 (5551)

NAME BRONZE POWDER

DATE : REV. May 2009

Manufacturer's name & address:

ACuPowder International LLC
901 Lehigh Avenue
Union, NJ 07083
Tel: 908-851-4500, Ext. 530 -- Emergency: 908-851-4519

B-501

Product name & Synonyms: BRONZE POWDER

INGREDIENTS

Material or component	CAS Number	%	Threshold limit value OSHA PEL
Copper	7440-50-8	50-98	1 mg/m ³ Dust
Tin	7440-31-5	2.0 - 50	2 mg/m ³ Fume

Chemicals listed as carcinogen or possible carcinogen:

	YES	NO	
NTP	X		
IARC	X		
OSHA	X		Section 313 information - see Page 3

CHEMICAL & PHYSICAL PROPERTIES

Boiling Point: Cu = 2563°C Sn = 2603°C	Melting point: 1075-885°C	Solubility in water: None	% volatile (vol.): N.A.
Specific gravity (water = 1) N.A.	Vapor pressure (mmHg): N.A.	Evaporation rate: N.A.	pH: N.A.

Appearance and odor: Light gray and odorless **Other:**

FIRE & EXPLOSION HAZARDS

Flash point (method): N.A.	Ignition temp: Cloud Layer 630°C 430°C	Minimum Explosive Concentration N.A.
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Extinguishing media: Class D extinguisher, dry sand or other inert extinguishing material.

Special fire fighting procedures: Gently cover the burning mass with sand or inert material and allow to cool.

Unusual fire & explosion hazards: Can be flammable and explosive when in a dust cloud, depending on the concentration of the powder in a given area and the size range of the powder. The U.S. Bureau of Mines Report RI-6516 has classified copper powder as weakly explosive. When in a dust cloud, will not explode readily in air or easily ignite by sparks.

ACUTE HEALTH EFFECTS / ROUTES OF ENTRY

Inhalation: Can cause sneezing, nausea, weakness, metal fume fever with flu like symptoms.

Skin contact: Can cause irritation and dermatitis.

Eye contact: Can cause irritation.

Ingestion: Can cause nausea, vomiting, diarrhea, metal fume fever with flu like symptoms.

Supplemental information Chronic effects, see Page 3.

FIRST AID PROCEDURES

Inhalation: Remove from exposure.

Skin contact: Wash affected skin with soap and water. Consult a physician.

Eye contact: Flush eyes with water at least 15 minutes. Consult a physician.

Ingestion: Consult a physician immediately.

REACTIVITY

Product corrosive:		Stability:		Hazardous polymerization:	
Yes	No X	Unstable	Stable X	May occur	Will not occur X

Conditions and materials to avoid: Strong acids, bromates, chlorates, iodates.

Hazardous decomposition products: Nitrogen oxide if reacted with nitric acid.

SPILLS, LEAKS, HANDLING & STORAGE

Spill & leak procedures: Wear protective clothing, goggles and a NIOSH approved respirator. Sprinkle moderately with damp sand and collect for disposal avoiding dust clouds as much as possible.

Waste disposal method: Put in a closed container for disposal.

(Disposer must comply with Federal, state or local waste disposal laws)

Handling and storage methods: Store in a cool, dry place avoiding contact with heat and acids. Avoid creating dust clouds.

SPECIAL PRECAUTIONS

Ventilation requirements: Local exhaust, minimum face velocity of 60 f.p.m.
Respiratory protection: (Use NIOSH/MSHA approved respirators) Use supplied air respiratory protection in confined or enclosed spaces if needed.
Protective clothing: Use work gloves and apron to avoid prolonged or repeated skin contact.
Additional protective measures: Goggles. Wash after use and before eating/drinking.
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CHRONIC HEALTH AFFECTS

Chronic overexposure may result in anemia, "Lead Line" on gums, possible nervous system damage, atrophic changes in mucous membranes.

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED

Pre-existing respiratory, kidney disease, Wilson's Disease.

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

TRANSPORTATION: DOT, IMDG not regulated.

<u>CAS #</u>	<u>Chemical Name</u>	<u>Percent Weight</u>
7440-50-8	Copper	50-98%

NOTE: Above range of copper content is for many grades of material. For exact copper content of material of your interest, please refer to Certificate of Analysis. If you do not have this, contact us.

Revision 5'09: Reason for Revision- Renamed Product ID "10P-HP" to "E-10"