

MATERIAL SAFETY DATA SHEET

PRODUCT 7030,8020,9010, 5701, 5704, 5705,
8020U, 7030U, 9010U, 301
NAME BRASS ALLOY
DATE REV. SEPTEMBER 2007

Manufacturer's name & address:

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

B-250

Product name & Synonyms: BRASS POWDER (UNLEADED)

INGREDIENTS

Material or component	CAS Number	%	Threshold limit value OSHA PEL
Copper	7440-50-8	60-98	0.1 mg/m ³ fume 1.0 mg/m ³ dust
Zinc	7440-66-6	2-40	5 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: Copper 4645°F Zinc = 1665°F	Melting point: 1280-1975°F	Solubility in water: None	% volatile (vol.) N.A.
Specific gravity (water = 1) 8.1-8.9	Vapor pressure (mmHg): N.A.	Evaporation rate: N.A.	pH: ND
Appearance and odor:	Brownish Gold - no odor		Other:

FIRE & EXPLOSION HAZARDS

Flash point (method): N.A.	Ignition temp: Cloud Layer 680°C 460°C	Minimum Explosive Concentration 500 oz./1000 ft. ³
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Extinguishing media: 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: Pure zinc dust exhibits the potential for dust explosions in clouds and in the presence of ignition source. Copper and Zinc powders with particle size range of less than 74 microns is classified as weakly explosive by the U.S. Bureau of Mines, Report RI-6516. When present as a dust cloud will not explode readily in air and are not easily ignited by sparks.

ACUTE HEALTH EFFECTS / ROUTES OF ENTRY

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

Skin contact: Can cause irritation and dermatitis.

Eye contact: May cause irritation.

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

Supplemental information Chronic affects, 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.

BRASS ALLOY 8020, 5701, 5704, 5705, 7030, 9010U (UNLEADED)

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 chemical resistant 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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ADDITIONAL INFORMATIONSUPPLEMENTAL HEALTH INFORMATIONACUTE HEALTH HAZARDS

Overexposure to fume, dusts and mists may result in sneezing, nausea, weakness. Acute overexposure will result in "metal fume fever" with flu-like symptoms lasting 24 to 48 hours.

CHRONIC AFFECTS

Anemia, "Lead Line" on gums, possible nervous system damage.

Atrophic changes in mucous membranes.

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.

<u>CAS #</u>	<u>Chemical Name</u>	<u>Percent Weight</u>
7440-50-8	Copper	60-98
7440-66-6	Zinc	2-40