



TEMCO

## MATERIAL SAFETY DATA SHEET

## HAZARD IDENTITY

DATE REV MDS NUMBER COMPILED BY APPROVED BY  
2/5/08 C220 L. Meeder Co. Safety

HEALTH 1	FLAMMABILITY 0
1	0
CONTACT	REACTIVITY

## PRODUCT IDENTIFICATION

C22000 ALLOY (COMMERCIAL BRONZE)

Director

## SECTION I

MANUFACTURER'S NAME: The Electric Materials Company EMERGENCY PHONE #: 814-725-9621  
STREET ADDRESS: 50 South Washington Street  
CITY, STATE, & ZIP: North East, PA 16428 INFORMATION PHONE #: 814-725-9621

## SECTION II - HAZARDOUS INGREDIENTS

Chemical Name	Ingredients		Percent Weight	PEL Occupational Exposure Limits	ACGIH
	Common Name	CAS #			
* Cu	Copper	7440-50-8	90%	1 mg/m <sup>3</sup> (dust) 0.2 mg/m <sup>3</sup> (fume)	1 mg/m <sup>3</sup> 0.2 mg/m <sup>3</sup>
* Zn	Zinc	7440-66-6	10%	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

## SECTION III - PHYSICAL DATA

MELTING RANGE: 1910 °F VAPOR DENSITY: N/A  
EVAPORATION RATE: N/A PERCENT VOLATILE BY VOLUME: N/A  
SOLUBLE IN WATER:  Yes  No SPECIFIC GRAVITY: 8.78

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMIBILITY CLASSIFICATION: OSHA: N/A DOT: N/A  
FLASH POINT: N/A °F °C LEL: N/A UN: N/A

## EXTINGUISHING MEDIA:

Foam  Alcohol Foam  CO<sub>2</sub>  Dry Chemical  Water Fog  Other

UNUSUAL FIRE AND EXPLOSION HAZARDS: Never mix water or moisture with molten metal, as a steam explosion may result.

DECOMPOSITION OF PRODUCTS: Metal dust or oxides.

SPECIAL FIRE FIGHTING PROCEDURES: N/A



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**SECTION V - HEALTH HAZARD DATA****EFFECTS OF OVEREXPOSURE**

**Acute (Short term):** Copper dust may be irritating to the skin, eyes, and upper respiratory tract. Molten fumes from the metal may cause fume fever, with flu-like symptoms, metallic taste in the mouth, and nausea.

**Chronic (Long term):** In the dust or metal fume state, it may cause an irritation of the upper respiratory tract. Chronic copper poisoning may result in Wilson's Disease, hepatic cirrhosis, brain damage, or renal disease.

**Medical Conditions Prone to Aggravation by Exposure:** Allergies or respiratory conditions may be aggravated.

**Primary Routes of Entry:**  Dermal  Inhalation  Ingestion

**Emergency and First Aid Procedures:** SKIN - wash with soap and water. If reddening or irritation occurs, victim should seek immediate medical attention, INHALATION - remove patient to fresh air, in all cases have individual checked by a physician.

**SECTION VI - REACTIVITY DATA**

STABILITY:  Unstable  Stable HAZARDOUS POLYMERIZATION:  May Occur  Will Not Occur

CONDITIONS TO AVOID: Molten metal with moisture or water can result in an explosion.

INCOMPATIBILITY (MATERIALS TO AVOID): Metal is not compatible with strong organic acids or oxidizers.

**SECTION VII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Pick up or sweep up and store in a secure container.

WASTE DISPOSAL METHOD: Metal should be recycled.

**SECTION VIII - SAFE HANDLING & USE PROCEDURES**

RESPIRATORY PROTECTION: Depending on the physical state of the material (dust or fume), use respiratory protection as recommended by 29 CFR 1910.134, or applicable State regulations.

VENTILATION: Local exhaust is recommended for very dusty conditions.

PROTECTIVE GLOVES: Leather or cotton.

EYE PROTECTION: Safety Glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: N/A

HYGIENIC PRACTICES: Use good personal hygiene when handling copper.

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: N/A

OTHER PRECAUTIONS: N/A