

UL-27-2006 14:28 FROM:ST LOUIS CRAFTS

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TO:13093435785

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60513-1136



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Rev. Date  
4-21-86

Section I

Yellow Brass

MSDS

2 pages

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	CAS NO.	OSHA-PEL/ACGIH-TLV
Copper	96.0 to 65.0	7440-50-8	Exposure Levels See Section V
Zinc	4.0 to 35.0	7440-66-6	

HAZARDOUS MIXTURES OF OTHERS LIQUIDS, SOLIDS, OR GASES:

If exposure to copper and zinc dust/fume are kept below Permissible Exposure Limits (PEL)/ Threshold Limit Value (TLV) all trace elements should not pose any health risk.

SECTION III - PHYSICAL DATA

PROPERTY	ALLOY	210	220	226	230	240	260	268
MELTING		1920	1870	1840	1810	1770	1680	1660
Vapor Pressure (mm Hg.)		Not applicable						
Solubility in Water		negligible						
Specific Gravity (H <sup>2</sup> O = 1)		8.86	8.80	8.78	8.75	8.67	8.53	8.47

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable*
Extinguishing Media	Not Applicable
Special Fire Fighting Procedures	Not applicable
Unusual Fire and Explosion Hazards	Not applicable

\*Reg. Numbers: 60513-1136

Under normal conditions. Heavy concentrations of fine copper dust may cause flash fire if exposed to ignition source.

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**SECTION V - HEALTH HAZARD DATA**

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**EXPOSURE LEVELS:** Copper dust and mists - OSHA (PEL): TWA = 1 MG/M<sup>3</sup>. ACGIH (TLV): TWA = 1 MG/M<sup>3</sup>.  
Copper fumes - OSHA (PEL): TWA = 0.1 MG/M<sup>3</sup>. ACGIH (TLV): TWA = 0.2 MG/M<sup>3</sup>.  
Zinc Oxide fumes - OSHA (PEL): TWA = 5 MG/M<sup>3</sup>. ACGIH (TLV): TWA = 5 MG/M<sup>3</sup>.  
STEL = 10 MG/M<sup>3</sup>. Zinc oxide dust - ACGIH (TLV) = 10 MG/M<sup>3</sup> of total dust.

**CARCINOGENICITY:** Not listed as a carcinogenic in NTP or IARC Monographs.

**EFFECT OF OVEREXPOSURE:** Fumes and dust - sneezing, cough, congestion, nausea, metal fume fever, irritation of upper respiratory tract, metallic tastes, chills, fever, muscular pain, thirst.

**EMERGENCY FIRST AID PROCEDURES:** Skin: Flush thoroughly with water.  
Eyes: Flush with water, call Physician.  
Ingestion: Drink water induce vomiting, call Physician.  
Inhalation: Remove victim to fresh air, call Physician.  
Copper and Zinc Fume, dusts and mists are listed by OSHA as air contaminants (29 CFR 1910.1000 Sub-part Z)

**PRIMARY ROUTE(S) OF ENTRY:** Inhalation.

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**SECTION VI - REACTIVITY DATA**

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**STABILITY:** Stable

**INCOMPATIBILITY (material to avoid):** (Dust and fumes) = acetylene, chlorine - (metals) = acids and oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Copper fume and dust, Zinc fume and dust.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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**SECTION VII - SPILL OR LEAK PROCEDURES**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Dust or Fume - wear respirator follow OSHA use instructions, shovel up, or vacuum and place in approved DOT container and seal. Wash contaminated clothing.

**WASTE DISPOSAL METHOD:** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Follow federal, state and local regulations for disposal.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

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**RESPIRATORY PROTECTION (Specify Type):** Dust or fume - NIOSH/MSHA approved.  
Dust/fume respirator.

**VENTILATION - Local Exhaust:** Dust/fume - if exposure levels exceeded.

**EYE PROTECTION:** (dust) goggles.

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**SECTION IX - SPECIAL PRECAUTIONS**

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Avoid breathing dust or fumes. Do not take internally.  
**Preclude from exposure to fume and dust those individuals with pulmonary and cardiac diseases.**