



REVISED JUNE 2002

**HUSSEY COPPER LTD.**BY: HUSSEY COPPER CORP., GENERAL PARTNER  
LEETSDALE, PA 15056

Brass

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M.S.D.S. HC-85-200

735-013/459155

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REVISION NO.: 2

**MATERIAL SAFETY DATA SHEET****SECTION I**

MANUFACTURER'S NAME: HUSSEY COPPER LTD.  
 ADDRESS: Washington Street LEETSDALE, PA. 15056  
 EMERGENCY PHONE NO.: 412-857-4200  
 CHEMICAL NAME AND SYNONYMS: COPPER/ZINC *yellow Brass*  
 TRADE NAME AND SYNONYMS: Gilding, commercial bronze, red brass, low brass, cartridge brass, *yellow brass*, CDA Alloy 210, 220, 226, 230, 240, 260, 268  
 CHEMICAL FAMILY: COPPER AND ZINC

**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**

MELTING	ALLOY	210	220	226	230	240	260	268
		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

\* 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**

- EXPOSURE LEVELS:** Copper dusts and mists - OSHA (PEL): TWA-1MG/M<sup>3</sup>. ACGIH (TLV): TWA-1 MG/M<sup>3</sup>  
 Copper fume - OSHA (PEL): TWA-0.1 MG/M<sup>3</sup>. ACGIH (TLV): TWA-0.2 MG/M<sup>3</sup>.  
 Zinc oxide fume - 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) TWA-10 MG/M<sup>3</sup> of total dust.
- CARCINOGENICITY:** Not listed as a carcinogenic in NTP or IARC monographs.
- EFFECT OF OVERDOSE:** Fume and dust - sneezing, cough, congestion, nausea, metallic tastes, chills, fever, muscular pain, marked thirst.
- EMERGENCY AND 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.
- PRIMARY ROUTE(S) OF ENTRY:** Inhalation

**SECTION VI - REACTIVITY DATA**

- STABILITY - Stable**
- INCOMPATIBILITY (material to avoid):** (Dust & Fume) acetylene, chlorine
- HAZARDOUS DECOMPOSITION PRODUCTS:** Copper Fume & dust/Zinc Fume & dust
- HAZARDOUS POLYMERIZATION - Will Not Occur**

**SECTION VII - SPILL OR LEAK PROCEDURES****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.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

- 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

**SECTION IX - SPECIAL PRECAUTIONS**

- 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.