


FEB-3-2006 14:13 FROM: ST LOUIS CRAFTS 1-314-638-2060 TO: 13093435785 P.2

Att: ~~John~~ ~~Diane~~ *John* *St. Louis Crafts*  
*St. Louis, MO*



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

MSDS  
*Copper*

60503-8110  
-81a5

M.S.D.S. HC-85-100  
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DATE: 3/26/85  
 REV. DATE: 12/15/88  
 REVISION NO.: 3

MATERIAL SAFETY DATA SHEET

*Att: Diane*

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  
**TRADE NAME AND SYNONYMS:** (OFHC) (DHP) (ETP) ELECTROLYSIS TOUGH PITCH  
 CDA ALLOY 101, 102, 104, 105, 107, 110\*, 113, 114, 115, 116, 120, 122  
 \* INCLUSIVE ALLOY 110 SILVER PLATE  
 Copper plus silver - All grades of copper covered (including silver bearing - 104, 105, 107, 113, 114, 115, 116) are expected to contain less than .1% silver.  
**CHEMICAL FAMILY:** COPPER

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	CAS NO.	OSHA-PEL/ACGIH-TLV
BASE METAL * COPPER	99.9	7440-50-8	Exposure Levels See Section V

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES: If exposure to copper dust/fume are kept below Permissible Exposure Limits (PEL) / Threshold Limit Value (TLV) all trace elements should not pose any health risk.  
 \* Chemical(s) listed as a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

SECTION III - PHYSICAL DATA

MELTING 1949° (F)  
 Vapor Pressure (mm Hg.) @ 1628° C - 1 mm  
 Solubility In Water Negligible  
 Specify Gravity (H<sub>2</sub>O = 1) 8.9

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.  
 Item Numbers: 60503-8110, 60503-8125

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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.