



HUSSEY COPPER LTD.

LEETSDALE, PA 15056

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: HUSSEY COPPER LTD.
ADDRESS: 100 WASHINGTON STREET, LEETSDALE, PA 15056
EMERGENCY PHONE NO.: 724-251-4200
CHEMICAL NAME AND SYNONYMS: COPPER
TRADE NAME AND SYNONYMS: SUPER SILVER COPPER, CDA ALLOY 155
CHEMICAL FAMILY: COPPER

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	CAS NO.	OSHA-PEL/ACGIH-TLV FOR EXPOSURE LEVELS
BASE METAL COPPER*	99.75 MIN.	7440-50-8	SEE SECTION V

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES: If exposure to copper dust / fume is 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.
- ▶ Copper plus silver - Alloy 155 is expected to contain less than 0.1% silver.

SECTION III - PHYSICAL DATA

Melting Point: 1972° F
Vapor Pressure (mm Hg.) Not Applicable
Solubility in Water: Negligible
Specify Gravity (H₂O = 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.**

SECTION V - HEALTH HAZARD DATA

EXPOSURE LEVELS: Copper dust and mists - OSHA (PEL): TWA = 1 mg/m³. ACGIH (TLV): TWA = 1 mg/m³.
Copper fumes - OSHA (PEL): TWA = 0.1 mg/m³. ACGIH (TLV): TWA = 0.2 mg/m³.
Silver: OSHA (PEL) - metal and soluble compounds (as Ag): TWA = 0.01 mg/m³.
Silver: ACGIH (TLV) - metal TWA = 0.1 mg/m³; soluble compounds TWA = 0.01 mg/m³.

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

EFFECTS OF OVEREXPOSURE (ACUTE): Fumes and dust - sneezing, cough, congestion, nausea, metallic tastes, irritation of upper respiratory tract, chills, fever.

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 fume, dusts and mists are listed by OSHA as air contaminants (29 CFR 1910.1000 Sub-part Z)

PRIMARY ROUTE(S) OF ENTRY: Inhalation

SECTION VI - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: (Material to avoid): Dust and fumes: acetylene, chlorine - Metals: acids and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Copper fumes / 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 (DUST / FUME): Dust or fume: NIOSH / MSHA approved dust / fume respirator.

VENTILATION (DUST / FUME): Local exhaust - if exposure levels exceeded.

EYE PROTECTION (DUST): Goggles.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid breathing dust or fumes. Do not take internally. Practice good housekeeping and personal hygiene procedures.