

MATERIAL SAFETY DATA SHEET

SECTION 1

CHEMICAL NAME AND SYNONYMS: COPPER; LEAD

TRADE NAME AND SYNONYMS: Lead coat, copper, lead, Pb coated copper
Lead coated copper sheets

CHEMICAL FAMILY: COPPER AND LEAD

SECTION 11 – HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	CAS NO.	OSHA-PEL/ACGIH-TLV
Copper base metal Lead Coating	99.9 15 lbs. Max per 100 ft. of copper surface	7440-50-8 7439-92-1	Exposure Levels See Section V

HAZARDOUS MIXTURES OF OTHERS LIQUIDS, SOLIDS, OR GASES:

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

SECTION 111 – PHYSICAL DATA

MELTING Copper 1949° F, lead 621°F

Vapor Pressure (mm Hg.) Not Applicable

Solubility in Water Negligible

Specific Gravity (H₂O = 1) Copper 8.9 lead 11.0

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

EXPOSURE LEVELS: Copper dusts and mists – OSHA (PEL): TWA = 1MG/M_. ACGIH (TLV): TWA = 1 MG/M_.
Copper fume – OSHA (PEL): TWA = 0.1 MG/M_. ACGIH (TLV): TWA = 0.2 MG/M_.
Lead – OSHA (PEL): TWA = 50 micrograms / M_; OSHA Action level: TWA = 30 micrograms ACGIH (TLV): TWA = 0.15 MG/M_.

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

EFFECT OF OVERDOSE: Lead-general: Pallor, weakness, loss of weight, fatigue, malnutrition.
Copper Fume and Dust: Sneezing, congestion, nausea, metallic tastes, chills, fever. Lead is a toxic and hazardous substance regulated by 29 C.F.R. Sect. 1910, 1025.

EMERGENCY AND FIRST AID PROCEDURES:

Skin: Flush thoroughly with water. Eyes – Flush with water, call Physician. Ingestion – call Physician. Inhalation – remove victim to fresh air – call Physician.
Copper Fume, dusts and mists are listed to OSHA as air contaminants.

PRIMARY ROUTE(S) OF ENTRY: Inhalation/Ingestion

SECTION VI – REACTIVITY DATA

STABILITY - Stable

INCOMPATIBILITY (material to avoid): (Dust & Fume) acetylene, chlorine

HAZARDOUS DECOMPOSITION PRODUCTS: Copper Fume/dust, Lead 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

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. Do not eat or smoke while handling.

Preclude from exposure to fume and dust those individuals with diseases of central nervous system (something missing – bottom of page cut off)