



**The International Metals & Chemicals Group
METALSAMERICA/ PPBTECHNOLOGIES**

MATERIAL SAFETY DATA SHEET

NUMBER: 2007

SECTION

MANUFACTURER'S NAME: **METALSAMERICA**
(IMCG as Distributor)

ADDRESS: One Pitcairn Place
165 Township Line Road
Jenkintown, PA 19046-3531
1-215-517-6000

DOT SHIPPING NAME: Copper

CAS NUMBER: 7440-50-8

REPORTABLE QUANTITY: N/A

CHEMICAL NAME AND SYNONYMS:

Copper

TRADE NAME AND SYNONYMS: T-Phos (CDA 122) Oxygen-Free (CDA 102), ETP (CDA 110)

CHEMICAL FAMILY/FORMULA: Cu

EMERGENCY TELEPHONE NUMBER:

Chemtrec: 800-424-9300

Outside USA Call: 202-483-7616

SECTION II - HAZARDOUS INGREDIENTS

Section 313 Supplier Notification

This product contains 99.9% Copper and is subject to the reporting requirements of Section 313 of the Emergency Planning and community Right-To-Know Act of 1986 and of 40 CFR 372. This information must be included in all Material Safety Data Sheets that are copied and distributed for this material.

No other hazardous material is present in concentration greater than 1%.

SECTION III - PHYSICAL DATA

BOILING POINT:	4700°F	MELTING POINT:	1983°F
SPECIFIC GRAVITY (H ₂ O = 1)	8.92	VOLATILITY/VOL (%):	N/A
SOLUBILITY IN WATER:	Insoluble	VAPOR PRESSURE (mm Hg.):	N/A
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (____) = 1:	N/A
APPEARANCE AND ODOR:	Various shapes and sizes Copper color, no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD USED): N/A

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Use approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Water contact with molten copper may cause explosion. Potentially explosive reaction with acetylenic compounds; 3-bromopropyne; ethylene oxide; lead azide; and ammonium nitrate. ignites on contact with chlorine; chlorine trifluoride; fluorine (above 121°C).

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: OSHA PEL - TWA 1.0 mg(Cu)/m³ (dust or mist), ACGIH TLV - TWA 0.2(Cu)/m³ (fume).

EFFECTS OF OVEREXPOSURE: Under normal handling and use, exposure to massive forms of copper represents very few hazards. Particulates generated from the use of this substance may pose some health risks. Acute exposure will cause irritation to the eye; foreign body reaction causes chalcosis. Prolonged and repeated exposure to the skin will cause irritation or discoloration. Acute exposure will cause primary gastrointestinal symptoms with nausea and vomiting, abdominal pain and diarrhea. In severe cases headache, sweating, kidney and liver and central nervous system damage progressing to convulsions, coma and possible death (rarely). Inhalation symptoms consist primarily of irritation. Cases of "metal fume fever" have been reported. EMERGENCY AND FIRST AID PROCEDURES: EYES: Irrigate with water for 15 minutes. SKIN: Wash contaminated skin and remove contaminated clothing. INHALATION: Remove from exposure; place individual under care of physician. INGESTION: Induce vomiting in conscious individual. SEEK MEDICAL ATTENTION IN THE EVENT OF ANY ACCIDENTAL EXPOSURE TO THIS PRODUCT. CARCINOGENICITY INFORMATION: Not listed as a carcinogen TSCA listed.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): At temperatures above melting copper oxide fumes may be formed.

HAZARDOUS DECOMPOSITION PRODUCTS: Contact with mineral acids will release hydrogen - a dangerous gas.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID:

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: If copper is spilled, it can be safely swept, shoveled or picked up by hand and returned to original container. Keep dust at a minimum.

WASTE DISPOSAL METHOD: Place in an approved container and dispose of in accordance with Federal, State, and Local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Approved respirator for dust or fumes.

VENTILATION: The area surrounding any plating tank should be suitably ventilated to prevent gases, mists, and particulate matter evolved from the plating tank from collecting to injurious levels. Maintain working environment below the recommended exposure limits.

PROTECTIVE GLOVES: Rubber or Leather

EYE PROTECTION: If copper metal is converted to particulates, avoid contact with eyes by appropriate safety goggles or glasses with full side shield.

OTHER PROTECTIVE EQUIPMENT: Protective coveralls and safety footwear.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from reactive products.

OTHER PRECAUTIONS: No other precautions are expected to be necessary.

SECTION X - OTHER REGULATORY INFORMATION

Ingredients in this product are TSCA listed.

Ingredients in this product are CDS listed.