MATERIAL SAFETY DATA SHEET

NEGATIVE PHOTOSENSITIZED COPPER

Updated 02/01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: NegativePhotosensitized Copper Additional Name: Negative Coated Copper General Use: To make copper photoengraving dies.

Company: UEI™ Systems, A Division of Universal Engraving, Inc.
9090 Nieman Road Overland Park, KS, USA 66214
1-800-821-8864 or 913-599-0244

EMERGENCY CONTACT: 1-800-424-9300 United States and Canada
703-527-3887 International

2. COMPOSITION:

	%	CAS #	OSHA PEL	ACGIH TLV
Copper	99.9	7440-50-8	NA	NA
Silver	0.05-0.1	7440-22-4	0.01 mg/m3	0.1 mg/m3
Acrylates	<1			

3. HAZARDS IDENTIFICATION:

Sheet of orange metal with blue to green coating on one side.

Routes of Entry: Ingestion and inhalation.

Health Hazards (Acute and Chronic):
Ingestion: Irritation to the lining of the stomach and intestines. Dry burning throat and metallic taste.
Inhalation: Lung changes potentially leading to pulmonary diseases.
Skin and Eye Contact: Mechanical irritation.
Systemic/Other Effects: Headach, muscle aches, cough, chest tightness/pain, nausea, chills, and fever.

Carcinogenicity: NA

4. FIRST AID:

Inhalation: Remove the victim to fresh air and call a physician. Skin: Flush thoroughly with water.
Ingestion: Do Not induce vomiting. Call a physician. Eye: Flush thoroughly with water and call a physician.
System and other potential health risks: Call a physician.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Not available. Flammable Limits: Not available.

Extinguishing Media: Dry sand or metal extinguishing powders.

Special Fire Fighting Procedures: Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in the fire.

Fire and Explosion Potential: Do not use water on molten metals. Fine particulate dust from grinding or other machining may explode in the presence of a strong ignition source.

6. ACCIDENTAL RELEASE MEASURES:

Clean up in a manner which minimizes exposure, especially to dust from product. Vacuuming is preferred for clean up of product dust. Use respiratory protection if necessary to minimize exposure to dust or fumes.

7. STORAGE, HANDLING, AND USE PROCEDURES:

Store and use away from heat and light.to maintain diazo stability. Avoid inhalation/ingestion of dust, fumes, and/or mist. Practice good housekeeping and personal hygiene. Avoid creating airborne dust when cleaning up dust from product. Recycle product if possible. If disposal is necessary follow all local, state, and federal regulations.

8. PERSONAL PROTECTION INFORMATION:

Wear safety glasses or face shield, protective gloves approved for specific operation, and steel-toed shoes. Exhaust dust, mist, and/or fumes at source if threshold limit values are exceeded. NIOSH/MSHA approved respirator is required for toxic dust, fume, and/or mist exposure.

9. PHYSICAL AND CHEMICAL DATA

Boiling Point: 2324° C
Evaporation Point: NA
Solubility in water: Negligible
Vapor Density: NA
pH: NA

Vapor Pressure: 1 mm Hg @ 1628° C
Melting Point: 1976-1981° F
Specific Gravity: Approximately 8.89-8.94
Appearance/Physical State: Orange metal with no odor/Solid.
Viscosity: NA

10. CORROSIVITY AND REACTIVITY DATA

Stability: Stable Conditions to avoid: Strong acids, bases, or oxidizing agents (during storage). Heat, sparks, open fllams, and direct light.

Incompatibility: Hydrogen peroxide, mercury, ammonia, acetylene, chlorine, halogenates of barium, calcium, magnesium, potassium, sodium, and zinc.

Hazardous Decomposition Products: Temperatures above melting point may evolve metallic oxide fumes.

Hazardous Polymerization: Will not occur.

11. OTHER INFORMATION

UEI™ Systems provides the information contained herein in good faith. It is believed to be correct. However it is not all inclusive and should be use only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI ™ Systems shall not be held liable for any damage resulting from handling or from contact with this product.

Abbreviations:
PEL - Permissible Exposure Limit
TLV - Threshold Limit Value
NA - Not Applicble
F - Fahrenheit
C - Celsius