MATERIAL SAFETY DATA SHEET  
MSDS# CWBG-3

U. S. Coatings  
BOX 312, ROUTE 202  
FLEMINGTON, NJ 08822  
Telephone: 908-782-5454  

ISSUE DATE: MARCH 8, 1996  
SUPERSEDES: NONE

HMIS:  
Health: 1  
Flammability: 0  
Reactivity: 0

See Section 8 - Pers. Protection B

SECTION 1. MATERIAL IDENTIFICATION

MATERIAL NAME: COPPER DIP PAINT - WATER BASED  
Item Number: WBG 2633  
CAS Number: MIXTURE

SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>%</th>
<th>ACGIH TLV-TWA mg/m³</th>
<th>OSHA PEL-TWA mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer</td>
<td>Proprietary</td>
<td>12.0-14.0</td>
<td>TWA 2 ppm skin</td>
<td>TWA 2 ppm skin</td>
</tr>
<tr>
<td>Acrylic Acid</td>
<td>79-10-7</td>
<td>&lt;0.01</td>
<td>None Established</td>
<td>TWA 2 ppm skin</td>
</tr>
<tr>
<td>Propoxy Propoxy Butanol</td>
<td>29911-28-2</td>
<td>3.5 - 4.5</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>23.0-25.0</td>
<td>1-</td>
<td>1-</td>
</tr>
</tbody>
</table>

Other ingredients are not at minimum concentration and/or do not meet the definition of "Hazardous Chemical" as defined in the OSHA "Hazard Communication Standard" regulation 29 CFR 1910.1200.

SECTION 3. PHYSICAL DATA

APPEARANCE and ODOR: Copper colored-viscous liquid. Mild acrylate odor.
BOILING POINT: 212 - 279 °F
EVAPORATION RATE: NA  MELTING POINT: NA
VAPOR PRESSURE: Water: 17  VAPOUR DENSITY (air-l): Water: 0.62
SPECIFIC GRAVITY: NA  %VOLATILE (incl. Water): 62
WATER SOLUBILITY (%): Miscible  MOLECULAR WEIGHT: na

SECTION 4. FIRE AND EXPLOSION DATA

FLASH POINT: NA  Water solution.
EXPLOSION LIMITS: LEL%: NE  UEL%: NE  AUTOIGNITION TEMPERATURE: NE
EXTINGUISHING MEDIA: Water foam, dry sand, dry inert chemical, VO₂.
SPECIAL PROCEDURES: Wear self-contained breathing apparatus.

SECTION 5. REACTIVITY DATA

STABILITY: Material is stable.  HAZARDOUS POLYMERIZATION: Will not occur.
CHEMICAL INCOMPATIBILITIES: Avoid strong acids and strong oxidizing agents.
HAZARDOUS COMBUSTION PRODUCTS: May yield carbon monoxide and carbon dioxide, ammonia, acrylate monomers, and hydrocarbons, noxious copper compounds.
SECTION 6. HEALTH HAZARD INFORMATION

TARGET ORGANS: Respiratory system, skin, eyes, central nervous system.
PRIMARY ROUTES OF ENTRY: Eye or skin contact, inhalation, ingestion.
HEALTH EFFECTS:
Vapors or direct eye contact may cause irritation. Acute overexposure to vapors may cause eye and respiratory tract irritation, dizziness and flu-like symptoms. Ingestion may cause irritation. Acrylic monomers may produce eye and/or skin irritation.
Copper dusts and mists are eye and mucous membrane irritants, primary skin irritant and skin sensitizer. Acute overexposure may cause metallic taste and nasal ulceration and perforation. Prolonged skin contact may produce sensitization dermatitis. Exposure may result in irritation, and metal-fume fever, metallic taste, and discoloration of the skin and hair.
Ingestion of copper compounds may cause vomiting and collapse. Acute poisoning is characterized by hemolysis, jaundice, anuria, hypotension, and convulsions.

FIRST AID:
EYE CONTACT: Immediately wash the eye with large amounts of water for at least 15 minutes, occasionally lifting the lower and upper lid. Get medical attention if irritation develops.
SKIN CONTACT: Wash contaminated skin with soap and water.
INHALATION: Remove the exposed person to fresh air. If necessary, give artificial respiration, give oxygen. Get medical attention.
INGESTION: Provide symptomatic treatment and seek medical attention.

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL/LEAK PROCEDURES: Prevent spread of spill. Absorb spill with inert material, then place in a chemical waste container. Be aware floor surfaces may become slick. Avoid introduction of spilled material into sewer systems of water treatment systems.
DISPOSAL: Dispose of in accordance with Federal, state and local disposal laws.

SECTION 8. PROTECTIVE EQUIPMENT INFORMATION

PERSONAL PROTECTIVE EQUIPMENT:
EYE PROTECTION: Safety goggles with side shields. Contact lenses should not be worn.
HAND PROTECTION: Wear impermeable gloves to prevent prolonged skin contact.
RESPIRATORY PROTECTION: Use MESA/NIOSH approved respirator were mist, fume, or vapor is generated and where permissible exposure limits may be exceeded.
WORKPLACE CONSIDERATIONS: Eye wash fountain, soap and water wash station.
VENTILATION: Mechanical local exhaust at point of containment (vapor or mist) release. Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible limits.
SPECIAL PRECAUTIONS: Practice good housekeeping and personal hygiene procedures. No eating, drinking, or smoking in work area. Wash hands thoroughly before eating and smoking. Avoid ingestion, inhalation and skin contact.
SECTION 9. HANDLING and STORAGE

SPECIAL HANDLING/STORAGE: store in a cool, dry place away from strong oxidizing agents, strong acids and heat sources, sparks, open flames. Keep drums closed. Avoid generation of dust clouds, vapor, mist, gas. Do not reuse empty containers as they may contain hazardous residue - dispose of properly. Do not breath dust, vapor, mist, gas. Awash thoroughly after handling.

SECTION 10. CARCINOGENICITY STATUS

1. NTP: Not listed  2. IARC: Not listed.  3. OSHA: Not listed

SECTION 11. EMERGENCY CONTACT

CHEMTREC: (800) 424-9300 TO BE USED “ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICALS.”

SECTION 12. REGULATORY INFORMATION

TSCA: The components of these products are included on the EPA TSCA Chemical Substance Inventory. For export from the United States products containing any amount of acrylic acid are subject to Section 12 (b) Export Notification Requirements, of the Toxic Substances Control Act. This product may contain acrylic acid levels up to 0.01%.

DSL/NDSL: The components of these products are listed Canadian DSL/NDSL.

DOT: Not regulated.

OSHA: Contains no Federal Clean Air Controlled Ozone Depleting Chemicals.

P65: Contains no chemicals at concentrations greater than 0.01% identified as causing cancer or reproductive toxicity according to California Proposition 65: Safe Drinking Water Enforcement Act of 1986.

ODC: Contains no Federal Clean Air Act Controlled Ozone Depleting Chemicals.

SARA 311/312: This product contains toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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<th>CAS#</th>
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