



**MD-BOTH INDUSTRIES**

850 Hawthorne Lane  
West Chicago, IL 60185-1966  
Tel: (630) 231-7600  
Fax: (630) 231-7623

| Hazard Ratings |                       |
|----------------|-----------------------|
| Minimal.....0  | <b>HEALTH 1</b>       |
| Slight.....1   | <b>FLAMMABILITY 1</b> |
| Moderate.....2 | <b>REACTIVITY 0</b>   |
| Serious.....3  | <b>PERSONAL</b>       |
| Severe.....4   | <b>PROTECTION B</b>   |

**MATERIAL SAFETY DATA SHEET**

Date of Preparation: September 3, 1998  
Prepared by: Steve Clark

MARKETED BY  
**HARWICK STANDARD  
DISTRIBUTION CORPORATION**  
60 S. Seiberling Street • Akron, Ohio 44305

**SECTION 1**

Manufacturer's Name: MD-Both Industries  
Street Address: 850 Hawthorne Lane, West Chicago, IL, 60185  
Emergency Telephone #: CHEMTREC 800-424-9300 24HRS  
Product Class: Waterbased Metallic Gold Ink  
Trade Name: Unipak Ready-mixed Waterbased Gold Ink  
Product Codes: 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776

**SECTION 2 -- HAZARDOUS INGREDIENTS**

This product contains the following toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40 CFR 372:

| <u>CAS Number</u> | <u>Chemical</u> | <u>% by weight</u> | <u>TLV (8 hr TWA)</u>        | <u>LEL</u> | <u>Vapour pressure</u> |
|-------------------|-----------------|--------------------|------------------------------|------------|------------------------|
| 7440-50-8         | Copper          | See page 3         | 1mg/m <sup>3</sup> (as dust) | N/A        | N/A                    |

This product also contains the following hazardous ingredients:

|           |                   |            |                                |           |         |
|-----------|-------------------|------------|--------------------------------|-----------|---------|
| 7440-66-6 | Zinc              | See page 3 | 10 mg/m <sup>3</sup> (as dust) | N/A       | N/A     |
| 67-63-0   | Isopropyl alcohol | 4%         | N/A                            | 2% (vol.) | 33mm Hg |

All ingredients in this product are listed in the TSCA inventory and are found on the Canadian DSL.

### **SECTION 3 -- PHYSICAL DATA**

Boiling point (deg. F): 212.0  
Type of odor: Mild acrylic odor  
Appearance: Gold colored liquid  
Evaporation rate: Slower than butyl acetate

Vapor density: Heavier than air  
% Total Solids : 40-45  
% VOC: <5.0%

### **SECTION 4 -- FIRE AND EXPLOSION DATA**

Flammability Classification: OSHA:III B  
DOT: Not regulated  
Flash Point of solvent (deg. F): >200°F  
Extinguishing Media: Foam, carbon dioxide, dry chemical, sand.  
Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat.  
Special Fire fighting Procedures: Use supplied air breathing apparatus.

### **SECTION 5 -- HEALTH HAZARD DATA**

Effects of Overexposure:  
Eye contact: May cause irritation.  
Skin contact: May cause dryness, irritation, or dermatitis.  
Inhalation: May cause irritation to respiratory tract, lightheadedness or dizziness.  
Ingestion: May cause irritation of gastrointestinal tract.  
Primary Routes of Entry: Inhalation of solvent vapours and skin contact.  
Emergency and First Aid Procedures:  
Eye contact: Flush with large amounts of water for 15 minutes or until irritation subsides.  
If irritation persists, call physician.  
Skin contact: Wash with soap and water. Remove and wash contaminated clothing.  
Inhalation: Remove affected person to fresh air. Restore normal breathing and administer oxygen if necessary. Call physician.  
Ingestion: Do not induce vomiting. Call physician.

### **SECTION 6 -- REACTIVITY DATA**

Product Stability: Stable under normal conditions.  
Conditions to avoid: Extreme heat. Avoid contact with strong oxidizing agents.  
Hazardous decomposition products: Incomplete combustion can form carbon monoxide, smoke, or fumes.  
Hazardous polymerization will not occur.

## SECTION 7 -- SPILL OR LEAK PROCEDURES

Procedure When Material Spilled or Released: Scoop up material and place in suitable container. Absorb excess solvent with sand or dry earth.

Waste Disposal Method: Dispose of contaminated material in an approved landfill or an approved incinerator that can accept metal containing organic waste.

## SECTION 8 -- SPECIAL PROTECTION INFORMATION

Protective Gloves: Use chemical resistant gloves to avoid prolonged skin contact.

Respiratory Protection: Not normally required if product is used in sufficiently ventilated area.

Eye Protection: Use chemical goggles to minimize chances of eye contact.

## SECTION 9 -- SPECIAL PRECAUTIONS

Handling and Storage: Store in closed containers in a cool, dry, well-ventilated area.

Other Precautions: Do not ingest. Avoid prolonged contact with skin, contact with eyes, and breathing vapor.

### PER CENT BY WEIGHT OF COPPER AND ZINC IN READY-MIXED METALLIC INKS SUPPLIED BY MD-BOTH.

| <u>Product Code</u> | <u>Shade</u> | <u>% Copper</u><br>(CAS No. 7440-50-8) | <u>% Zinc</u><br>(CAS No. 7440-66-6) |
|---------------------|--------------|--|--------------------------------------|
| 2768                | Rich         | 26                                     | 11                                   |
| 2769                | Rich Pale    | 29.5                                   | 7.5                                  |
| 2770                | Pale         | 33                                     | 4                                    |
| 2771                | PMS 871      | 27                                     | 10                                   |
| 2772                | PMS 872      | 28                                     | 9                                    |
| 2773                | PMS 873      | 30                                     | 7                                    |
| 2774                | PMS 874      | 32                                     | 5                                    |
| 2775                | PMS 875      | 33                                     | 4                                    |
| 2776                | PMS 876      | 33                                     | 4                                    |

The information contained in this data sheet was obtained from sources we believe are reliable but cannot guarantee. Your use of this information is beyond our control. Therefore, the information is provided without any representation or warranty.