

Hazard Ratings	
Minimal.....0	HEALTH 1
Slight.....1	FLAMMABILITY 1
Moderate.....2	REACTIVITY 0
Serious.....3	PERSONNEL PROTECTION B
Severe.....4	

MATERIAL SAFETY DATA SHEET

Date of Preparation: March 2005

Prepared by: Adam Heath

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: Ready-mixed Waterbased Metallic Gold Ink

Trade Name: Unipak High Strength Gold Ink

Product Codes: 2101, 2102, 2103, 2104, 2105, 2106

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>Vapor pressure</u>
7440-50-8	Copper	See page 3	1mg/m ³ (as dust)	N/A	N/A

This product also contains the following hazardous ingredients:

7440-66-6	Zinc	See page 3	10 mg/m ³ (as dust)	N/A	N/A
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All ingredients in this product are listed in the TSCA inventory and are found on the Canadian DSL.

MARKETED BY
**HARWICK STANDARD
 DISTRIBUTION CORPORATION**

60 S. Seiberling Street • Akron, Ohio 44305

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
% VOC: <2.0%
% Total Solids : 50-65%

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.
Ingestion: May cause irritation of gastrointestinal tract.
Primary Routes of Entry: 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.
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.

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 contact with eyes.

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> (CAS No. 7440-50-8)	<u>% Zinc</u> (CAS No. 7440-66-6)
2101	871	30.9	12.2
2102	872	34.8	8.3
2103	873	36.5	6.6
2104	874	38.4	4.7
2105	875	38.8	4.3
2106	876	38.8	4.3

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