

**MD-BOTH INDUSTRIES**

850 Hawthorne Lane
 West Chicago, IL 60185-1966
 Tel: (630) 231-7600
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Hazard Ratings	
Minimal.....0	HEALTH 1
Slight.....1	FLAMMABILITY 1
Moderate.....2	REACTIVITY 0
Serious.....3	PERSONNEL
Severe.....4	PROTECTION B

MATERIAL SAFETY DATA SHEET

Date of Preparation: January 29th, 1999
 Prepared by: Steve Clark

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 Gold Ink, For Absorbent Stock
 Product Codes: 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176,

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
67-63-0	Isopropyl alcohol	3%	N/A	2% (vol.)	33 mm 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
% VOC: <4.0%
% Total Solids : 48-53

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 vapors 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.

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)
2168	Rich	28	12
2169	Richpale	31	9
2170	Pale	36	4
2171	PMS 871	28	12
2172	PMS 872	30	10
2173	PMS 873	33	7
2174	PMS 874	35.5	4.5
2175	PMS 875	36	4
2176	PMS 876	32.5	3.5

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