

# MATERIAL SAFETY DATA SHEET


**MD-BOTH INDUSTRIES**

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DATE: 5/99 Rev. April 2002  
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<i>HMIS Ratings</i>	
Health	1
Flammability	1
Reactivity	0
Personal Protection	B or SG

**SECTION #1**

Manufacturer's Name: **MD-Both Industries**

Street Address: 850 Hawthorne Lane, West Chicago, IL 60185

Emergency Telephone Number #: CHEMTREC 1-800-424-9300 24HRS

Product Class: Heat Set Metallic Gold Ink

Trade Names: Unipak

Product Codes: 9400, 9401, 9664, 9665, 8671, 8672, 8673, 8674, 8675, 8676, 8651, 8652, 8653, 8654, 8655, 8656, TFU 410, TFU 411

**SECTION #2 HAZARDOUS INGREDIENTS**

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

Name	CAS#	TSCA#	% by weight	OSHA PEL	ACGIH TLV(TWA)
Copper	7440-50-8	A546-0888	**	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

This product also contains the following hazardous ingredients.

Name	CAS#	LEL	% by weight
Light petroleum distillate	64742-46-7	0.6%	**

\*\* See attached Chart

All of the components of this material are listed in the TSCA inventory and are found on the Canadian DSL.

**SECTION #3 PHYSICAL DATA**

Boiling range (deg.F): 534-592

Vapor density: Heavier than air

Odor: Mild petroleum solvent odor

Evaporation rate: Slower than butyl acetate

Specific Gravity: 1.25-1.35

Liquid density: Heavier than water.

Appearance: Gold Colored Paste

%VOC: 21- 23

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## SECTION #4 FIRE AND EXPLOSION DATA

Flammability Classification: OSHA: Not classified DOT: Not regulated  
Flash point of solvent (deg. F): Minimum 210 by Pensky Martens Closed Cup  
LEL of solvent: 0.6%  
Extinguishing Media: Carbon Dioxide, Dry Powder, Foam, Sand.

Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat.  
Special Firefighting Procedures: Closed containers may be kept cool by a water spray. However, water is not a suitable extinguishing medium.

## SECTION #5 HEALTH HAZARD DATA

Possible Carcinogen: No  
Effects of overexposure:  
Eye contact: May cause irritation  
Skin contact: May cause dryness, irritation, or dermatitis  
Inhalation: Solvent vapors may cause aspiration of small amounts of material into lungs resulting in possible irritation of mucous membranes or central nervous system damage.

Primary routes of entry: Inhalation of solvent vapors; skin contact

Emergency and first aid procedures:

Eyes: Flush with large amounts of water for 15 minutes or until irritation subsides. If irritation persists, call physician.

Skin: Wash with soap and water. Remove and wash contaminated clothing.

Breathing: Remove to fresh air. Restore normal breathing.

Ingestion: Do not induce vomiting. Call physician.

## SECTION #6 REACTIVITY DATA

Product Stability: Stable. Product will not react violently with water.

Conditions to avoid: Extreme heat, sparks, open flames

Hazardous decomposition products: None

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: Landfill in approved area or incinerate in approved incinerator in accordance with local, state, and federal regulations.

## SECTION #8 SPECIAL PROTECTION INFORMATION

Ventilation: Use ventilation sufficient to prevent buildup dangerous concentrations of solvent vapor.

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.

Other Protective Equipment: Use chemical apron when handling large quantities of material.

## SECTION #9 SPECIAL PRECAUTIONS

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

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

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.

The purpose of the following addition to this MSDS is to inform you that these products contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372. We are required to notify you of the presence of these chemicals under this Act. This law requires certain manufacturers to report on annual emissions of specified toxic chemicals and chemical categories.

On the accompanying chart inks supplied by MD-Both are listed according to their 4-digit product code. Next to each code number is shown the percentage of each reportable chemical it contains.

Please note that if you repackage or otherwise redistribute this product to industrial customers, a notice similar to this one should be sent to those customers. Any copies or redistribution of this MSDS must include this information.

Product Code(s)	% Copper	% Zinc	% VOC
9400, 9664,TFU410	24.8	10.2	23
9401, 9665,TFU411	32.5	2.5	23
8671, 8651	24.5	10.5	21-23
8672, 8652	24.9	10.1	21-23
8673, 8653	28.2	6.8	21-23
8674, 8654	30.5	4.5	21-23
8675, 8655	30.5	4.5	21-23
8676, 8656	31.8	3.2	21-23