MATERIAL SAFETY DATA SHEET

DATE: August 3, 1998, revised: September 1999
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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: Metallic Offset Ink
Trade Names: Unipak UV Sheetfed Ink
Product Codes: 8101, 8131, 8140, 8171, 8172, 8173, 8174, 8175, 8176, 8130, 8031, TFU-200, 8033, TFU-227, 8508, 8510, TFU361, TFU392

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/m3	1 mg/m3

This product also contains the following hazardous ingredients.

Name	CAS#	LEL	% by weight
N/A	N/A	N/A	N/A

**See % of Copper on 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.C): >100
Vapor density: Heavier than air
acrylic odor
Evaporation rate: Slower than butyl accetate

Liquid density: Heavier than water.
Appearance: Gold Colored Paste
%VOC: 0%

Odor: Mild

SECTION #4 FIRE AND EXPLOSION DATA
Flammability Classification: OSHA: OSHA Class IIIB DOT: Not regulated
Flash point of solvent (deg. F): Not Applicable
LEL of solvent: Not Applicable
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.

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SECTION #5 HEALTH HAZARD DATA

Possible Carcinogen: No
Effects of overexposure:
Eye contact: May cause irritation
Skin contact: May cause dryness, irritation, or dermatitis
Ingestion: Small amounts asperated into the lungs may cause irritation of mucous membranes and/or central nervous system damage.
Inhalation: Not normally considered to be an industrial hazard.

Primary routes of entry: Inhalation of chemical 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: Product will not react violently with water. Product unstable at high temperatures (> 60deg. C), in direct sunlight or strong Ultra Violet light sources.
Conditions to avoid: Extreme heat, sparks, open flames, direct sunlight, strong UV light sources.
Hazardous polymerization: Hazardous exothermic polymerization may occur when heated or exposed to direct sunlight.
Hazardous decomposition products: Burning material may produce Carbon Monoxide and irritating acrid smoke.

SECTION #7 SPILL OR LEAK PROCEDURES

Procedure When Material Spilled or Released: Scoop up material and place in suitable container.

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

MATERIAL SAFETY DATA SHEET

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.

HAZARD RATINGS		PRODUCT	
Minimal	0	HEALTH	1
Slight	1	FLAMMABILITY	1
Moderate	2	REACTIVITY	0
Serious	3	PERSONAL PROTECTION	B or SG
Severe	4		

Addendum:

Percentage of Copper and Zinc

Product Number	Percent Copper	Percent Zinc
8101	29	13
8131	38	4
8140	27	3
8171	28	12
8172, TFU-200	31	9
8173, 8033, TFU-392		7
8174, TFU-227	34	6
8175	35	5
8176		2.5
8031	28	12
8130	28	12