



# MD-BOTH INDUSTRIES

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

## MATERIAL SAFETY DATA SHEET

Date of Preparation: February 12th, 1998  
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: Water Based Metallic Ink  
Trade Name: Unipak Water Based Silver Ink  
Product Codes: 2077, 2177, 2477, 3077, 3079 (TFU152)

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

### SECTION 2 -- HAZARDOUS INGREDIENTS

CAS Number	Ingredient	LEL (dry aluminum powder)
7429-90-5	Aluminum	30oz. /1000ft <sup>3</sup>

None of the ingredients in this product are subject to reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40CFR 372.

### SECTION 3 -- PHYSICAL DATA

Boiling point (deg. F): 212.0	Vapor density: Heavier than air
Pounds per Gal.: 9.04	% Total Solids : 31 - 35
Specific Gravity : 1.08 (H2O = 1)	% VOC: <1.0%
Type of odor: Mild acrylic odor	
Appearance: Silver colored liquid	
Evaporation rate: Slower than butyl acetate	

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

Flammability Classification: OSHA II  
DOT: Not regulated

Flash Point of solvent(deg. F): >600°F ASTM D-3

Extinguishing Media: Class D Dry chemical extinguishing agent or other suitable extinguishing material such as dry sand. Do not use Class A, B, or C extinguishers or halogenated agents. A fine water spray may be used to cool the outside of closed containers.

Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat. Water and finely divided aluminum will react to form hydrogen gas when heated. Aluminum burns at very high temperatures as a mass. If solvent has completely burned out or evaporated, any disturbance that might create a dust cloud can result in explosion. LEL of dry aluminum is 30 ounces per 1000 cubic feet.

Special Firefighting Procedures: If solvent has completely burned out and aluminum has ignited, drum should be carefully isolated and fine dry sand placed around outside of container. Any disturbance that might create a dust cloud can result in explosion.

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

Effects of Overexposure:

Eye contact-- May cause irritation.

Skin contact-- May cause dryness, irritation, or dermatitis.

Ingestion--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: 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

Conditions to avoid: Extreme heat, sparks, open flames.

Hazardous decomposition products: Incomplete combustion can form carbon monoxide, smoke, or fumes.

Hazardous polymerisation 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 accordance with local, state, and federal regulations.

## **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.

## **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.

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