



**MD-BOTH INDUSTRIES**

40 Nickerson Road  
Ashland, MA 01721-1912  
Tel: (508) 881-4100  
Fax: (508) 881-1656

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

**MATERIAL SAFETY DATA SHEET**

Date of Preparation: January 15, 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: Water Based Metallic Silver Ink  
Trade Name: Unipak Water Based Silver Ink  
Product Codes: 2777, TFU 307

**SECTION 2 -- HAZARDOUS INGREDIENTS**

<u>CAS Number</u>	<u>Chemical</u>	<u>% by weight</u>	<u>Exposure Limits</u>
7429-90-5	Aluminum	22	15mg/m <sup>3</sup> --OSHA PEL (dust) 10mg/m <sup>3</sup> --ACGIH TLV (dust)

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  
Akron • Chicago • Northeast • Southern • West Coast

**SECTION 3 -- PHYSICAL DATA**

Boiling point (deg. F): 212.0	Vapor density: Heavier than air
Type of odor: Mild acrylic odor	% VOC: <1.0%
Appearance: Silver colored liquid	% Total Solids : 41 - 43
Evaporation rate: Slower than butyl acetate	

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

Flammability Classification: OSHA : III B

DOT: Not regulated

Flash Point of solvent (deg. F): >200°F

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.

Special Fire fighting 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 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.

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 liquid with sand or dry earth.

**Waste Disposal Method:** Dispose of waste material in approved incinerator, landfill or water treatment facility that can accept aqueous material containing aluminum metal and organic material.

## **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 eye contact.

## **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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