

**MD-BOTH INDUSTRIES**

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

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

MATERIAL SAFETY DATA SHEET

Date of Preparation: December 30, 1997
 Prepared by: Scott D. Fields

SECTION 1

Manufacturer's Name: MD-BOTH Industries
 Street Address: 40 Nickerson Road, Ashland, MA 01721
 Emergency Telephone #: CHEMTREC 800)424-9300 24HRS
 Chemical Name: Aluminum pasted in 35% petroleum distillate
 Trade Name: Supersheen 200S Silver Heatset Paste

SECTION 2 -- HAZARDOUS INGREDIENTS

This product contains no toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. This product contains the following hazardous ingredients:

<u>CAS#</u>	<u>Chemical Name</u>	<u>% by Weight</u>	<u>TLV</u>	<u>LEL</u>	<u>Vapor Pressure</u>
7429-90-5	Aluminum	62	NA	30 oz/1000 ft ³	NA
64742-47-8	Light hydrotreated petroleum distillate	35	300 ppm	0.6%	<1 mm Hg @ 25°C (manufacturer's recommendation)

All components of these products are listed in the TSCA Inventory and are found on the Canadian DSL.

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SECTION 3 PHYSICAL DATA

Boiling range (°F): 459-530

Vapor density: Heavier than air

Type of odor: Mild petroleum solvent odor

Evaporation rate: <0.01 (Butyl acetate=1.0)

Liquid density: Lighter than water

Appearance: Silver colored paste

% VOC: 35%

SECTION 4 -- FIRE AND EXPLOSION DATA

Flammability Classification: OSHA Class IIIB

DOT: Not regulated

Flash Point of solvent(°F): Minimum 221 by Pensky Martens Closed Cup.

Extinguishing Media: Foam, carbon dioxide, Class D Dry chemical extinguishing agent or other dry extinguishing material such as dry sand. Do not use Class A, B, or C extinguishers or halogenated agents. Do not use water

Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat. Water and finely divided aluminum react to form hydrogen gas.

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 flake is 30 ounces per 1000 cubic feet. LEL of petroleum distillate is 0.6% in air.

Special Fire fighting Procedures: If solvent has completely burned out and the aluminum has ignited, drum should be carefully isolated and fine dry sand placed around outside of container. If dry chemical agent is applied, the extinguisher must be equipped with a low velocity nozzle to avoid dust generation.

SECTION 5 -- HEALTH HAZARD DATA

Effects of Overexposure:

Eye contact-- May cause irritation.

Skin contact-- Prolonged exposure may cause irritation. Acute dermal LD50 (rat) of solvent is greater than 3.16 g/kg.

Inhalation-- May cause irritation in respiratory tract, headaches, dizziness, other signs of central nervous system depression, or death. Laboratory studies have shown that prolonged and repeated exposure to light hydrocarbon vapors in the same naphtha boiling range as this product can produce adverse kidney effects in rats. In human studies, there was no clinical evidence of such effects at normal occupational exposure levels.

Ingestion-- Small amounts of solvent aspirated into the lungs during ingestion or vomiting may cause pneumonitis or death. LD50 of solvent is greater than 5 g/kg body weight.

Primary routes of Entry: Inhalation of solvent vapors; skin contact.

SECTION 5 (continued)

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 immediately.

SECTION 6 -- REACTIVITY DATA

Product Stability: Stable

Conditions to avoid: Heat, sparks, open flames, water.

Hazardous decomposition products: Aluminum reacts with water, acids, and alkalis to form hydrogen gas. Incomplete combustion of solvent can form carbon monoxide.

SECTION 7 -- SPILL OR LEAK PROCEDURES

Procedure When Material Spilled or Released: Remove all sources of ignition. Keep people away. Ventilate area. Using spark-proof tools, scoop up material. Absorb excess solvent with dry sand or other absorbent material.

Waste Disposal Method: Dispose of contaminated material in an approved landfill or an approved incinerator that can accept metal containing organic material in accordance with local, state, and federal regulations.

SECTION 8 -- SPECIAL PROTECTION INFORMATION

Ventilation: Use with ventilation sufficient to prevent buildup of dangerous concentrations of solvent vapor in air. Use explosion-proof equipment. No smoking or open lights.

Protective Gloves Use chemical resistant gloves to avoid prolonged skin contact.

Respiratory Protection: Use organic vapor mask in confined or enclosed spaces, if needed

Eye Protection: Use chemical goggles or face shield to minimize the chance of eye contact

SECTION 9 -- SPECIAL PRECAUTIONS

Handling and Storage: Do not store above 120 degrees F. Store in closed containers in a cool, dry, well-ventilated area.

Other Precautions: **DO NOT ALLOW MATERIAL TO EVAPORATE TO DRYNESS.** Do not ingest. Avoid prolonged contact with skin, contact with eyes, and breathing vapor.

More detailed information on storage and handling of aluminum powders may be found in the Aluminum Association's brochure entitled "Recommendations for Storage and Handling of Aluminum Powders and Pastes".

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