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

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

MATERIAL SAFETY DATA SHEET

Date of Preparation: March 18, 2002
Prepared by: Max Hui

SECTION 1

Manufacturer's Name: MD-BOTH Industries
Street Address: 40 Nickerson Road, Ashland, MA 01721
Emergency Telephone #: CHEMTREC 800-424-9300 (24 hours)
Chemical Name: Aluminum flake/Pigment
Trade Name: Powdal 1500-VP10492, Powdal 1700, Powdal 2600-VP/10384, Powdal 2900, Powdal 3100, Powdal 3200-VP 10386, Powdal 3400, Powdal VP 10923, Constant VP/2600, Constant VP/2900, Constant VP/3200, Constant VP/3100, Constant VP1700, Constant VP/1500, Constant VP 3100, Constant VP 3200, Constant VP 3400.

SECTION 2 -- HAZARDOUS INGREDIENTS

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

CAS#	Chemical Name	% by Weight	TLV	LEL
7429-90-5	Aluminum, coated	100	10mg/m³	30 oz/1000 ft³

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

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SECTION 3 -- PHYSICAL DATA

Boiling range (deg. F): N/A
Vapor density: N/A
Type of odor: Odorless
Evaporation rate: N/A

Liquid density: N/A
Appearance: Silver colored Powder
% VOC: 0.0

SECTION 4 -- FIRE AND EXPLOSION DATA

Flammability Classification: OSHA: Flammable solid
DOT: Aluminum powder, coated, 4.1, UN 1396, II

Flash Point Deg. F : N/A

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. Do not use water.

Unusual fire and explosion hazards: Closed containers may explode when exposed to extreme heat. Water and finely divided aluminum react violently to form hydrogen gas. Aluminum burns at very high temperatures as a mass. Any disturbance that might create a dust cloud can result in explosion. LEL of dry aluminum flake is 30 ounces per 1000 cubic feet.

Special firefighting procedures: If the aluminum has ignited, drum should be carefully isolated and fine dry sand placed around outside of container. Do not disturb the powder until it has cooled down to ambient temperature. do not allow dust clouds to form.

SECTION 5 -- HEALTH HAZARD DATA

Effects of Overexposure:
Eye contact: may cause irritation.
Skin contact: prolonged exposure may cause irritation.
Inhalation: May cause irritation in respiratory tract

Primary Routes of Entry: Inhalation and 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.
Inhalation: Remove affected person to fresh air. Restore normal breathing and administer oxygen if necessary. Call physician.
Ingestion: Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician or poison control center immediately. Treat symptomatically.

SECTION 6 -- REACTIVITY DATA

Product Stability: stable
Conditions to avoid: Heat, sparks, open flames, water, acids, alkalis, strong oxidizing agents
Hazardous decomposition products: Aluminum reacts with water, acids, and alkalis to form hydrogen gas.

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 remove material to leak-proof container for disposal.

Waste Disposal Method: Dispose of contaminated material in approved landfill or incinerator that can accept aluminum metal 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 dust 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 dust mask in confined or enclosed spaces, if needed.

SECTION 9 -- SPECIAL PRECAUTIONS

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

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

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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