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	0
Serious	3	PERSONAL PROTECTION	E
Severe	4		

MATERIAL SAFETY DATA SHEET

Date of Preparation: January 8, 1999
Prepared by: Brian J. Kelly

SECTION 1

Manufacturer's Name: MD-BOTH Industries
Street Address: 40 Nickerson Road, Ashland, MA 01721
Emergency Telephone Number: 1(800) 424-9300 (Chemtrec)

Chemical Name: Brass Flaked Metal

Trade Names: MD-30L, MD-60, MD-77, MD-90, MD-98, MD-98HCS, MD-99, MD-105, MD-106, MD-110, MD-113, MD-115, MD-116, MD-117, MD-118, MD-119, MD-120, MD-120FI, MD-127, MD-220, MD-540, MD-600, MD-601, MD-650, MD-655, MD-660, MD-950, MD-1303, MD-4245, MD-4346, MD-4943, MD-5128, MD-5132, MD-5183, MD-5186, MD-5206, MD-5236, MD-5247, MD-5303, MD-5312, MD-5324, MD-5338, MD-5340, MD-5344, MD-5345, MD-5348, MD-5351, MD-5361, MD-5382, MD-5391, MD-5398, MD-5399, MD-5401, MD-5402, MD-5405, MD-5406, MD-5409, MD-5419, MD-5424, MD-5425, MD-5429, MD-5434, MD-5436, MD-5437, MD-5444, MD-5447, MD-5448, MD-6000, MD-6510, MD-6715, MD-6922, MD-7144, MD-7146, MD-7488, MD-7976, MD-8029, B-9372, B9340, B9782 Pale, C-9923, Superfine, Superoto 200, Superoto 400, Superoto 450, Superoto 540, Superoto 550, Superoto 590 VP-1002, Luminor 2280, 2850/130, 2850/140, MD-5461, Superoto 100 ASI, MD-5465, Antique Gold, MD-5466

Valid for these trade names in the following shade colors: Rich, Richpale, Pale, Lemon & Deep.

FINE BRONZE/3/8/99

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:

			Per cent by weight by shade:		
			Lemon		Deep
Name	CAS #	TSCA #	Rich	Richpale	Pale
Copper	7440-50-8	A546-0888	69%	82.5%	91.0%
Zinc	7440-66-6	B823-4379	29.5%	16.0%	7.5%
Aluminum	7429-90-5	A072-7839	0.5%	0.5%	0.5%

Name	OSHA PEL	ACGIH TLV(TWA)
Copper	1 mg/m³ (as dust)	1 mg/m³ (as dust)
Zinc	15 mg/m³ (as a nuisance dust) 5 mg/m³ (respirable fraction)	10 mg/m³ total dust* *Zinc is classed as a nuisance particulate
Aluminum	15 mg/m³ (as dust) 5 mg/m³ (respirable fraction)	10 mg/m³ (as dust)

This product also contains the following ingredient :

Name	CAS #
Stearic Acid	57-11-4

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 Point (deg. F) N/A
Vapor density: N/A
Specific Gravity: 8.5 (H_2O=1.0)
Appearance: Gold and copper colored powder
Evaporation rate: N/A
% VOC: 0 %

SECTION 4 – FIRE AND EXPLOSION DATA

Flammability Classification: OSHA: Not classified
DOT: Metal Powders, Flammable, NOS 4.1 UN3089, II (Copper)

Flash point: N/A LEL: N/A
Extinguishing Media: carbon dioxide, dry powder, foam
Unusual Fire And Explosion Hazards: None
Special Firefighting Procedures: Use supplied-air breathing apparatus with full face piece.

SECTION 5 – HEALTH HAZARD DATA

Threshold Limit Value for copper : 1mg/m³ (CFR 1910.Table Z)
Possible Carcinogen : No
Effects of exposure:
Inhalation: Irritation of mucous membranes and pharynx.
Ingestion: Chronic ingestion increases the risk of Wilson's disease. May cause copper to accumulate in the liver
Contact : Irritation, metal taste, dermatitis.

Emergency First aid procedures:
Eyes: If the material comes in contact with the eyes, immediately wash with large amounts of water, occasionally lifting the upper and lower lids. Get medical attention immediately.
Contact lenses should not be worn.
Skin: Wash contaminated skin with soap and water. If irritation develops, seek medical attention.
Breathing: Remove to fresh air. If necessary, administer artificial respiration, keep victim warm and quiet, get medical attention.
Ingestion: Get medical attention.
Primary routes of entry: skin contact, eye contact, ingestion

SECTION 6— REACTIVITY DATA

Product Stability: Stable. Product will not react violently with water.
Conditions to avoid: Heat, sparks, open flames, water. Avoid contact with strong oxidants, such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, magnesium metal, acetylene gas.

Hazardous decomposition products: None
Hazardous polymerization: Will not occur.

SECTION 7 – SPILL OR LEAK PROCEDURES

Procedure When Material Spilled or Released: Keep people away. Ventilate area. Sweep up.

Waste disposal method: Dispose of in landfill or incinerator that is approved to accept finely divided metal in accordance with local state and federal regulations.

SECTION 8 – SPECIAL PROTECTION INFORMATION

Ventilation: Use with local exhaust. No smoking or open lights.
Protective Gloves: Chemical resistant gloves to avoid prolonged skin contact.
Respiratory Protection: If needed, use dust respirator in areas where dust concentration exceeds exposure limits.
Eye Protection: Chemical goggles may help prevent eye contact

SECTION 9 – SPECIAL PRECAUTIONS

Handling and Storage: Store upright in closed containers in a cool, well-ventilated area. Do not store near heat, sparks, open flames, or strong oxidants. Do not reuse containers.

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

MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Selberling Street · Akron, Ohio 44305

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