

**MD-BOTH INDUSTRIES**

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

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

**MATERIAL SAFETY DATA SHEET**

Date of Preparation: April 16, 2001

Prepared by: Brian J. Kelly

**SECTION 1**

Manufacturer's Name: MD-BOTH Industries

Street Address: 40 Nickerson Road, Ashland, MA 01721

Emergency Telephone: 1-800-424-9300 (Chemtrcc, 24 hours)

Chemical Name: Brass Flaked Metal

Trade Name: MD Tarnish Resistant Gold Bronze Powder MD-1103, MD-1104, MD-1106, MD-1106/98, MD-1107, MD 2250 Constant, MD-4117 Constant,

**SECTION 2 – HAZARDOUS INGREDIENTS**

This product contains copper and zinc which are 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:

<u>Chemical</u>	<u>CAS #</u>	<u>TSCA #</u>	<u>Rich</u>	<u>Richpale</u>	<u>Pale</u>	<u>Copper</u>
Copper	7440-50-8	A546-0888	69%	82.5%	91%	99%
Zinc	7440-66-6	B823-4379	29.5%	16%	7.5%	
Aluminum	7429-90-5	A072-7839	0.5%	0.5%	0.5%	

<u>Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV(TWA)</u>
Copper	1 mg/m <sup>3</sup> (as dust)	1 mg/m <sup>3</sup> (as dust)
Zinc	15 mg/m <sup>3</sup> (as a nuisance dust) 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> total dust*
Aluminum	15 mg/m <sup>3</sup> (as dust) 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> (as dust)

\*Zinc is classed as a nuisance particulate

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

**SECTION 2 (continued)**

This product also contains the following ingredient :

Silica 7631-86-9

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

**SECTION 3 -- PHYSICAL DATA**

Boiling Point (deg. F) N/A	Vapor density: N/A
Specific Gravity: 8.5 (H <sub>2</sub> O=1.0)	Appearance: Gold colored powder
Evaporation rate: N/A	% VOC: 0.0 %

**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 Fire fighting Procedures: Use supplied-air breathing apparatus with full face piece.	

**SECTION 5 – HEALTH HAZARD DATA**

Threshold Limit Value, Copper : 1mg/m <sup>3</sup> (CFR 1910.Table Z)	Effects
Possible Carcinogen : No	
of exposure	
Inhalation: Irritation of mucous membranes and pharynx.	
Ingestion: Chronic ingestion increases the risk of Wilson's disease and 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.

Hazardous polymerization will not occur.

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

## 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 metallic powder in accordance with local state and federal regulations.

## SECTION 8 -- SPECIAL PROTECTION INFORMATION

Ventilation: Use with local exhaust. Use explosion-proof equipment. No smoking or open lights.

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

Respiratory Protection: If needed, use dust respirator in areas where ventilation is not sufficient to limit dust.

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.