



MD-BOTH INDUSTRIES

40 Nickerson Road
 Ashland, MA 01721-1912
 Tel: (508) 881-4100
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Hazard Ratings			
Minimal	0	HEALTH	1
Slight	1	FLAMMABILITY	1
Moderate	2	REACTIVITY	0
Serious	3	PERSONAL	
Severe	4	PROTECTION	E

MATERIAL SAFETY DATA SHEET

Date of Preparation: August 7, 1997
 Prepared by: Scott D. Fields

SECTION 1

Manufacturer's Name: MD-BOTH Industries
 Street Address: 40 Nickerson Road, Ashland, MA 01721
 Emergency Telephone: 1-800-424-9300 (Chemtrec, 24 hours)
 Chemical Name: Brass Flaked Metal
 Trade Name: MD Tarnish Resistant Gold Bronze Powder MD-1103, MD-1104,
 MD-1105, MD-1106/98, MD-1107, MD-1109, 2850/D2, 2561 Constant-HBF, MD-5418,
 MD-5426, MD-5442

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:

<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 ³ (as dust)	1 mg/m ³ (as dust)
Zinc	15 mg/m ³ (as a nuisance dust) 5 mg/m ³ (respirable fraction)	10 mg/m ³ total dust*
Aluminum	15 mg/m ³ (as dust) 5 mg/m ³ (respirable fraction)	10 mg/m ³ (as dust)

*Zinc is classed as a nuisance particulate

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 ₂ O=1.0)	Appearance: Gold and copper 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/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 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.

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