



**MD-BOTH INDUSTRIES**

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

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: June 15, 2004  
Prepared by: Max Hui

**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/Copper metal flakes  
 Trade Name: MD 41, MD 41A, MD-51, MD-60, MD-61, MD77, MD 90, MD-90 Cordova Gold, MD-98, MD-98 HCS, MD 99, MD-105, MD-106, MD-110, MD-113, MD-115, MD-116, MD-117, MD-118, MD-119, MD-120, MD-120FL, MD-127, MD-220, MD-500, MD-540, MD-600, MD-601, MD-625, MD- 640, MD-650, MD-655, MD-660, MD-770, MD-950, MD1303, MD-1679, MD-2350, MD-3050, MD-3844, MD-3845, 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 5392, 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-5465, Antique Gold, MD-5466, MD-5482, MD-5492, MD-5494, MD-5620 MD-6000, MD-6224, MD-6234, MD-6327, MD-6510, MD-6715, MD-6922, MD-7000, MD-7144, MD-7146, MD-7488, MD-7976, B-9372, B-9340, B-9782 Pale, C-9923, Superfine, Superoto 200, Superoto 400, Superoto 450, Superoto 540, Superoto 550, Superoto 590 VP-1002, Superoto 500/7144, Superoto 500/7146, Luminor 2280, 2850/130, 2850/140, Luminor 2350, MD-5461, Superoto 100 ASI, Multiprint 4230, Multiprint 4240, Multiprint 4330, Multiprint 4160, Unicoat 3850, MD 3850

Valid for these trade names in the following shade colors: Rich, Richpale, Pale, Copper, Lemon & Deep or a blend of any number of the above

MARKETED BY  
**HARWICK STANDARD DISTRIBUTION CORPORATION**

60 S. Seiberling Street • Akron, Ohio 44305

## 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:  
Percent by weight by product type:

<u>Name</u>	<u>CAS #</u>	<u>TSCA #</u>	<u>Bronze Pigments</u>	<u>Copper Pigment</u>
Copper	7440-50-8	A546-0888	65-90 %	98.0-99.5 %
Zinc	7440-66-6	B823-4379	35-10 %	0.0 %
Aluminum	7429-90-5	A072-7839	0.5-1.0%	0.0 %

<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 nuisance particulate matter

This product also contains the following ingredient:

<u>Name</u>	<u>CAS #</u>
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.

### California Proposition 65 Statement

This product does not contain any chemicals known to the state of California to cause cancer or reproductive harm.

## SECTION 3 -- PHYSICAL DATA

Boiling Point (deg. F) N/A

Vapor density: N/A

Specific Gravity:

8.19 for copper shade

7.54 Rich or Lemon shade

7.73 for Richpale shade

7.90 Pale or Deep shade

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

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 :  $1\text{mg}/\text{m}^3$  (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.

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