

**MD-BOTH INDUSTRIES Hazard Ratings**

BOX 306  
 NICKERSON ROAD  
 ASHLAND  
 MASSACHUSETTS 01721  
 TEL. (508) 881-4100  
 FAX (508) 881-1656

Minimal.....0  
 Slight.....1  
 Moderate.....2  
 Serious.....3  
 Severe.....4

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	SG

**MATERIAL SAFETY DATA SHEET**

Date of Preparation: October 22, 1991

Prepared by: Richard T. Marshall

Revised Date : September 13, 1995

Revised By : Richard T. Marshall

**SECTION 1**

Manufacturer's Name: MD-BOTH Industries

Street Address: 40 Nickerson Road, Ashland, MA 01721

Emergency Telephone #: CHEMTREC 800-424-9300 24HRS

Product Class: Water Based Metallic Gold Ink

Trade Name: Ready-mixed Water Based Gold Ink

Product Codes: RDX-1571, RDX-1741, RDX-1791, RDX-1801,  
 RDX-1841, RDX-1871, RDX-1872, RDX-1873, RDX-1874, RDX-1875,  
 RDX-1876, RDX-1881, RDX-1891, RDX-1892, RDX-1901, RDX-1902,  
 RDX-1941, RDX-1991, RDX-2002, RDX-2003, RDX-2004, RDX-2005,  
 RDX-2006, RDX-2007, RDX-2008, RDX-2009, RDX-2010, RDX-2011,  
 RDX-2012, RDX-2013, RDX-2014, RDX-2015, RDX-2016, RDX-2017,  
 RDX-2025, RDX-2026, RDX-2031, RDX-2871, RDX-2872, RDX-2873,  
 RDX-2874, RDX-2875, RDX-2876, RDX-2892, RDX-3871, RDX-2038,

**SECTION 2 -- HAZARDOUS INGREDIENTS**

CAS Number	Ingredient	Boiling range (deg. F)
67-63-0	Isopropyl Alcohol	180
7440-50-8	Copper *	N/A
7440-66-6	Zinc *	N/A

\* Amounts of toxic chemicals subject to reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40CFR 372, are listed at the end of this MSDS .

All of the components of these products are listed in the TSCA Inventory and can be found on the Canadian DSL.  
 All of these products conform with the CONEG regulations as of 1994.



### SECTION 3 -- PHYSICAL DATA

Boiling point (deg. F): 158.0  
Vapor density: Heavier than air  
Pounds per Gal.: 10.0  
Specific Gravity : 1.2 (H2O = 1)  
Liquid density: Heavier than water  
Type of odor: Mild alcoholic solvent odor  
Appearance: Gold colored liquid  
Evaporation rate: Faster than butyl acetate  
% VOC: 10.0 to 12.3 ; see attached chart  
% Total Solids : 40-45%

### SECTION 4 -- FIRE AND EXPLOSION DATA

Flammability Classification: OSHA 11  
DOT: Not regulated  
Flash Point of solvent(deg. F): 53.0

Extinguishing Media: Foam, carbon dioxide, dry chemical, sand.  
Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat.  
Special Firefighting Procedures: Water is a suitable extinguishing medium.

### SECTION 5 -- HEALTH HAZARD DATA

Effects of Overexposure:  
Eye contact-- May cause irritation.  
Skin contact-- May cause dryness, irritation or dermatitis.  
Inhalation-- Solvent vapors may cause irritation in respiratory tract.  
Ingestion--May cause aspiration of small amounts of material into lungs resulting in possible irritation of mucous membranes or central nervous system damage.  
Primary Routes of Entry: Inhalation of solvent vapors. 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.  
Ingestion: Do not induce vomiting. Call physician.

### SECTION 6 -- REACTIVITY DATA

Product Stability: Stable  
Conditions to avoid: Extreme heat, sparks, open flames.  
Hazardous decomposition products: Incomplete combustion can form carbon monoxide, smoke, or fumes.

## SECTION 7 -- SPILL OR LEAK PROCEDURES

Procedure When Material Spilled or Released: Scoop up material and place in suitable container. Absorb excess solvent with sand or dry earth.

Waste Disposal Method: Dispose of contaminated material 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 solvent vapor in air.

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

Respiratory Protection: Not normally required if product is used in sufficiently ventilated area.

Eye Protection: Use chemical goggles.

Other Protective Equipment: Use chemical apron.

## SECTION 9 -- SPECIAL PRECAUTIONS

Handling and Storage: Store in closed containers in a cool, dry, well-ventilated area.

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

The information contained in this data sheet was obtained from sources we believe are reliable but cannot guarantee. Your use of this information is beyond our control. Therefore, the information is provided without any representation or warranty.

The purpose of this attachment to the MSDS for inks sold by MD-BOTH is to inform you that these products contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. We are required to notify you of the presence of these chemicals under this Act. This law requires certain manufacturers to report on annual emissions of specified toxic chemicals and chemical categories.

On the accompanying chart inks supplied by MD-BOTH are listed according to their 4-digit product code. Next to each code number is shown the percentage of each reportable chemical it contains. The Chemical Abstracts Service (CAS) number for each reportable chemical is also shown.

Please note that if you repackage or otherwise redistribute this product to industrial customers, a notice similar to this one should be sent to those customers. Any copies or redistribution of this MSDS must include this section 313 notification, including the accompanying chart.

PER CENT BY WEIGHT OF SECTION 313 REPORTABLE CHEMICALS IN  
READY-MIXED METALLIC INKS SUPPLIED BY MD-BOTH.

Product Code	% Copper CAS No. 7440-50-8	% Zinc CAS No. 7440-66-8	% VOC
RDX-1571	23.6	5.6	12.3
RDX-1741	23.7	8.6	12.3
RDX-1791	29.6	2.7	12.3
RDX-1801	25.2	7.2	12.3
RDX-1841	22.0	8.0	10.0
RDX-1871	22.0	8.0	12.3
RDX-1872	22.8	8.0	12.3
RDX-1873	25.0	5.0	12.3
RDX-1874	25.5	5.0	12.3
RDX-1875	25.5	5.0	12.3
RDX-1876	19.0	0.4	12.3
RDX-1881	29.6	2.7	12.3
RDX-1891	27.5	2.5	10.0
RDX-1892	30.0	0.0	12.3
RDX-1901	16.0	5.8	10.0
RDX-1902	20.0	3.5	10.0
RDX-1941	28.9	9.1	10.0
RDX-1991	28.9	9.1	10.0
RDX-2002	21.0	6.0	10.0
RDX-2003	30.0	---	----
RDX-2004	30.0	---	10.0
RDX-2005	22.0	8.0	10.0
RDX-2006	22.0	8.0	10.0
RDX-2007	----	---	----
RDX-2008	24.3	5.6	10.0
RDX-2009	23.7	8.6	10.0

Product Code	% Copper CAS No. 7440-50-8	% Zinc CAS No. 7440-66-6	% VOC
RDX-2010	22.0	8.0	10.0
RDX-2011	25.0	5.0	10.0
RDX-2012	21.6	7.5	10.0
RDX-2013	21.6	7.5	10.0
RDX-2014	21.6	7.5	10.0
RDX-2015	20.0	8.0	10.0
RDX-2016	27.5	2.5	10.0
RDX-2017	22.0	8.0	10.0
RDX-2025	28.9	9.1	10.0
RDX-2026	28.0	0.0	10.0
RDX-2031	30.0	0.0	10.0
RDX-2871	22.0	8.0	10.0
RDX-2872	22.8	8.0	10.0
RDX-2873	25.0	5.0	10.0
RDX-2874	25.0	5.0	10.0
RDX-2875	25.5	5.0	10.0
RDX-2876	28.0	0.0	10.0
RDX-2892	30.0	0.0	10.0
RDX-3871	22.0	8.0	10.0
RDX-2038	30.0	0.0	10.0