

MATERIAL SAFETY DATA SHEET

IDEAL

Effective Date: April 15, 2002

PRODUCT NAME: DO MARKER INK - YELLOW**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**Product Identifier: **DO Marking Ink/Speedry Metal Marker Ink**

General Use: 2017 Metal Marker Refill Ink

Product Color: Yellow

Ideal Stencil Machine and Tape Company, 102 Iowa Avenue, Belleville, IL 62220

24-hour Emergency Phone: 1-800-535-5053, Business hours Phone: 1-618-233-0162

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	% by Wt.	Exposure Limits (ppm)			
			OSHA		ACGIH	
			TWA	STEL	TWA	STEL
Ethyl Alcohol	64-17-5	25-35	1000	----	1000	----
Ethyl Acetate	141-78-6	15-25	400	----	400	----
Propylene Glycol Monomethyl Ether (PM)	107-98-2	8-15	100	----	100	150
Nitrocellulose	9004-70-0	3-7	None established			
Isopropyl Alcohol	67-63-0	1-5	400	500	400	500
Resin	None Assigned	15-25	None Established			

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:** Flammable. Can cause irritation to eyes and skin. May be harmful if swallowed. Overexposure may cause dizziness.**POTENTIAL HEALTH EFFECTS:****INHALATION:** Excessive inhalation may cause irritation of the nose and respiratory tract and Central Nervous System effects such as headache, dizziness and possible unconsciousness.**EYE CONTACT:** May cause irritation, redness, tearing, blurred vision.**SKIN CONTACT:** May cause mild irritation, defatting of the skin and dermatitis.**INGESTION:** Can cause gastrointestinal irritation, nausea and vomiting.**CHRONIC:** Does not contain materials listed as cancer causers by NTP, IARC, or OSHA. Overexposure has caused liver and blood abnormalities, kidney damage.**4. FIRST AID MEASURES****INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.**EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention if irritation persists.**SKIN CONTACT:** Wash with soap and water.**INGESTION:** Get medical attention immediately. Do not induce vomiting.**5. FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES:**

Flash Point: 26°F (-3°C)

Method: TCC

Flammable Limits: 1.5% to 25.7%

Autoignition Temperature: Not Available

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, hydrocarbon combustion products.**EXTINGUISHING MEDIA:** Alcohol foam, dry chemical, CO₂.**FIRE FIGHTING INSTRUCTIONS:** Use self-contained breathing apparatus and full protective clothing for large or indoor fires. Use water spray to cool containers.

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6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wipe up and place in closed container. Dried material can be placed in regular trash.

LARGE SPILL: Remove all ignition sources and ventilate area. Mop up material and place in closed container. Dispose of in accordance with all federal, state and local regulations.

7. HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling.

STORAGE: Store away from heat, sparks, or flames. Lids must be well secured.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation is recommended to keep vapors below exposure limits.

RESPIRATORY PROTECTION: Not required under normal circumstances. Use a MSHA/NIOSH approved respirator equipped for organic vapors when exposure limits are exceeded.

SKIN PROTECTION: Wear impervious gloves if hand contact is anticipated.

EYE PROTECTION: Safety glasses with side shields are recommended if splashing is anticipated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range: 167° - 248°F (75° - 120°C)

Melting Point: Not Applicable

Vapor Pressure: about 30mm Hg, 68°F (20°C)

Vapor Density: >1

Solubility in Water: Poor

Specific Gravity: 1.0

Weight/Gallon: 8.4 lbs.

VOC: 588 g/l

Odor: Sweetish

% Volatile by Vol.: > 58%

Appearance: Yellow-Colored Viscous Liquid

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: (Conditions to avoid) None

INCOMPATIBILITY: Strong oxidizing agents..

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Ethyl alcohol: LD₅₀ 7060mg/kg (oral, rat), LC₅₀ 20,000 ppm (10H, rat). Ethyl acetate: LD₅₀ 5620mg/kg (oral, rat), LC₅₀ 1600 ppm (8H, rat).

Intentional misuse by deliberate inhalation may cause liver, kidney damage.

12. ECOLOGICAL INFORMATION

None available on this product.

13. DISPOSAL CONSIDERATIONS

See Section 6. Waste materials would be considered Code D001 (Characteristic - Ignitability)

14. TRANSPORTATION INFORMATION

IATA & IMDG: Printing Ink, 3, UN1210, PG II; DOT: Consumer Commodity, ORM-D, Consumer Commodity, ORM-D-Air by air.

15. REGULATORY INFORMATION

EPCRA (SARA), Sec. 313 Reportable Materials: None

TSCA: All components are included in the TSCA inventory.

16. OTHER INFORMATION

HMIS Hazard Rating 1 3 0 (4 = extreme, 0 = negligible)

NFPA Hazard Rating 1 3 0

(>) = Greater than

(<) = Less than

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