

MATERIAL SAFETY DATA SHEET

U-MARK

Revision Date: August 12, 2010

PRODUCT NAME: DOD INK JET SYSTEM INKS AND CONDITIONER

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: DOD INK JET INK BLACK, RED, GREEN, BLUE AND DOD
CONDITIONER

General Use: Use with Ink Jet Systems on porous surfaces.

Product Color: Black, Red, Green, Blue or Light Blue (Conditioner)

U-Mark, Inc., 102 Iowa Ave., Belleville, IL 62220 USA tel. 618 -235-7500

24-hour Emergency Phone Infotrac: 1-800-535-5053 (USA), 1-352-323-3500 (International)

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	% by Wt.	Exposure Limits (ppm) OSHA ACGIH TWA STEL
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Diethylene Glycol Monobutyl Ether	112-34-5	>29	None established
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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May be harmful if swallowed in large amounts.

POTENTIAL HEALTH EFFECTS:

INHALATION: None expected under normal conditions of use.

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: May cause slight irritation.

INGESTION: Small amounts are unlikely to cause injury.

CHRONIC: Does not contain a material listed as carcinogenic by NTP, IARC, and OSHA. Repeated overexposure may cause liver, kidney and gastrointestinal effects.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

EYE CONTACT: Flush with water immediately for 15 minutes. Contact a physician.

SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and flowing water.

INGESTION: Call a physician immediately. Do not induce vomiting. Keep person warm.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: > 212°F (> 100°C) Method: PMCC Flammable Limits: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, trace organic aldehydes and acids.

EXTINGUISHING MEDIA: Water spray, dry chemical, CO₂, foam.

FIRE FIGHTING INSTRUCTIONS: When large quantities or indoor fires are involved, wear self-contained breathing apparatus and complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up with absorbent and hold in covered container for incineration according to applicable regulations.

LARGE SPILL: Eliminate ignition sources and put on personal protective equipment. Dike and/or pump into appropriate containers. Destroy by incineration in accordance with all Federal, State and local laws and regulations.

7. HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling.

STORAGE: Store in cool area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: General exhaust is recommended.

RESPIRATORY PROTECTION: Not usually required unless spraying ink in a confined area. Then a NIOSH/MSHA approved respirator with organic vapor cartridges or canister should be used.

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

EYE PROTECTION: Chemical splash goggles should be used when working with chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range: >212°F (>100°C)

Melting Point: Not Applicable

Vapor Pressure: < 0.01mm Hg, 68°F (20°C)

Vapor Density: 3.66

Solubility in Water: Complete

Specific Gravity: 1.01

Weight/Gallon: 8.2 lbs

VOC: > 290 g/l

Odor: Mild

% Volatile by Vol.: >29%

Appearance: Colored 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

Diethylene Glycol: LD₅₀ 1g/kg (oral, human), 11.89g/kg (skin, rabbit).

12. ECOLOGICAL INFORMATION

Prevent any runoff from reaching natural waterways.

13. DISPOSAL CONSIDERATIONS

See Section 6. Waste materials would be considered non-hazardous

14. TRANSPORT INFORMATION

DOT, IATA, IMDG: Not regulated

15. REGULATORY INFORMATION

EPCRA (SARA) Sec. 313 Reportable Materials: None

TSCA: All components are listed in the TSCA Inventory.

16. OTHER INFORMATION

HMIS and NFPA Rating: Health 1, Flammability 0, Reactivity 0 (4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = least).

Caution!

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