

# MATERIAL SAFETY DATA SHEET

Date: April 21 2006



## PRODUCT NAME: DR. MARK DETERGENT REMOVABLE MARKER

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: DR. MARK Detergent Removable Marker  
General Use: Marking on Most Surfaces  
Product Colors: Black, Blue, Green, Red, White, Yellow

U-Mark, Inc., 2401 West Main Street, Belleville, IL 62226

**24-hour Emergency Phone: 1-800-535-5053 (USA & Canada), 1-352-323-3500 (International).**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Description : Mixture of the substances listed below with non-hazardous additions

Ingredient	CAS No.	% by Wt.	Exposure limits (PPM)	
			OSHA PEL	ACGIH-TLV
Propan-1-ol	71-23-8	70-95	TWA 200	200
Rosin, fumarated, Polymer with polyols	N/A	5 -12	15* 5** mg/m <sup>3</sup>	10mg/m <sup>3</sup>
Amorphous Fumed silica, Silicone Dioxide, Crystalline free	11945-52-5	0.5- 2	N/A	3.5 mg/m <sup>3</sup>

\* total dust \*\* respirable fraction (as free dust only; not applicable when in liquid ink form)

### 3. HAZARDS IDENTIFICATION

**Emergency Overview : Warning! Flammable liquid. Harmful. Keep liquid and vapors away from ignition sources, heat, and static discharge. Avoid contact with eyes or skin. Avoid inhalation of mist and vapor. If swallowed, do not induce vomiting. Get immediate medical attention.**

#### POTENTIAL HEALTH EFFECTS:

**INHALATION:** Can cause respiratory tract irritation, fatigue, dizziness, nausea, headache, unconsciousness and respiratory failure.

**EYES:** May cause severe irritation. Avoid contact with eyes.

**SKIN :** Prolonged contacts may cause defatting of skin or dermatitis.

#### CHRONIC HEALTH EFFECTS:

Prolonged exposure of vapors or materials may cause diseases of the lungs. Reports have associated repeated overexposure to solvents with brain and nervous systems damage. Intentional misuse of this product may be harmful or fatal.

### 4. FIRST AID MEASURES

**INHALATION:** Remove to fresh air. If breathing has stopped, apply artificial respiration and call a physician immediately.

**EYE CONTACT:** Flush with plenty of water for fifteen minutes and call a physician immediately.

**SKIN CONTACT:** Wash with soap and water.

**INGESTION:** Do not induce vomiting. Call a physician.

### 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES:

Flash Point: 23° C. (73° F)

Method: TCC

Flammable Limits: LEL 2.1% UEL 13.5%

Ignition Temperature: 360° C. (680° F)

**EXTINGUISHING MEDIA:** Co2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. ABC Powder.

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Wear self-contained respiratory protective devise. Wear fully protective suit. Dispose of fire debris and contaminated fire-fighting water in accordance with official regulations.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Nitrogen Oxides (NOx), Carbon monoxide (CO).

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## 6. ACCIDENTAL RELEASE MEASURES

**SPILL:** Eliminate all sources of ignition. Wear protective clothing. Ensure adequate ventilation. Spills should be contained, absorbed with liquid-binding material, and placed in a leak proof container. Do not allow liquid to reach sewage system or any water course. Collected material should be disposed of following all federal, state and local regulations.

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## 7. HANDLING AND STORAGE

**HANDLING:** Ensure good ventilation. Keep ignition sources away. Use solvent proof equipment. Use spark proof tools. Flammable gas-air mixture may be formed in empty receptacles.

**STORAGE:** Store in a cool, well-ventilated area, away from heat, sparks, flames or direct sunlight. Keep out of reach of children. Keep containers closed. Do not smoke.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use only with adequate ventilation. Local and general exhaust should minimize any exposure.

**RESPIRATORY PROTECTION:** Use suitable respiratory protective device in case of insufficient ventilation (NIOSH approved).

**SKIN PROTECTION:** Chemical resistant gloves when skin contact is possible.

**EYE PROTECTION:** Not required when used as intended. Wear chemical splash goggles if splashing is anticipated.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Alcohol-like

Boiling point/ range 96° C ( 205° F)

APPEARANCE: Colored, opaque fluid.

Solubility in water: difficult to mix

Density at 20° C (68° F) : 0.86 g/cm<sup>3</sup>

Melting point : undetermined

Vapor pressure at 20° C ( 68° F): 19.0 hPa (14 mm Hg)

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## 10. STABILITY AND REACTIVITY

**THERMAL DECOMPOSITION/ CONDITIONS TO AVOID:** None if used according to specifications.

**INCOMPATIBILITY:** Avoid concentrated Nitric and sulfuric acids, strong oxidizers, halogens, and halogen compounds.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce carbon monoxide and/or carbon dioxide, and nitrogen oxides

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## 11. TOXICOLOGICAL INFORMATION

Propan-1-ol: LD50 1870 mg/kg (oral, rat); LD50 5040 mg/Kg (dermal, rabbit)

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## 12. ECOLOGICAL INFORMATION

Prevent spilled materials from entering natural waterways.

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## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, state and local regulations.

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## 14. TRANSPORT INFORMATION

DOT (Ground) USA : ORM-D CONSUMER COMMODITY; Printing Ink, 3, UN 1210, PG III, Ltd. Qty

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## 15. REGULATORY INFORMATION

Does not contain a material listed as carcinogenic by NTP, IARC ,OSHA or California Proposition 65.

Does not contain reportable chemicals under SARA Title III Section 313. OSHA hazardous material see HMIS information in Section 16 below.

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## 16. OTHER INFORMATION

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

### Caution!

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