

# MATERIAL SAFETY DATA SHEET

Rev. Date: February 5, 2010

**PRODUCT NAME: M88-BKD Black Dye Marker**

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: M88-BKD Black Dye Marker.

General Use: Marking on porous and non-porous surfaces.

Product Color: Black

Marsh Shipping Supply Co., LLC 926 McDonough Lake Rd., Collinsville, IL 62234 USA **USA tel. 618-343-1006**

**24-hour Emergency Phone: Chemtrec 1-800-424-9300 (within the USA and Canada) 1-703-527-3887 (International)**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	% by Wt.	Exposure Limits (ppm)	
			OSHA TWA	ACGIH TWA
Xylene	1330-20-7	30-60	100	100
Ethylbenzene	100-41-4	2-10	100	100

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW: Flammable liquid and vapor. May cause eye, skin and respiratory tract irritation. May affect central nervous system. If swallowed, do not induce vomiting. Get immediate medical attention**

### POTENTIAL HEALTH EFFECTS:

**INHALATION:** Overexposure may cause headache, dizziness and other central nervous system effects. May irritate the respiratory tract.

**EYE CONTACT:** May cause irritation, redness, tearing, and blurred vision.

**SKIN CONTACT:** May cause mild irritation, redness, de-fatting, and dermatitis.

**INGESTION:** May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**CHRONIC:** Does not contain materials listed as cancer causative agents by NTP or OSHA. IARC (International Agency for Research of Cancer) has classified Ethylbenzene as a possible human carcinogen (2B). Long term overexposure may cause liver and kidney damage.

## 4. FIRST AID MEASURES

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

**EYE CONTACT:** Immediately flush eyes with plenty of water and call a physician.

**SKIN CONTACT:** Wash with soap and water. Remove contaminated clothing and launder before use.

**INGESTION:** Get medical attention immediately. Do not induce vomiting unless directed by a physician.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

Flash Point: 75-85°F (24-29°C) Method: TCC Flammable Limits: LEL 1% UEL 7%

Auto-ignition Temperature: not available.

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, unidentified organic compounds.

**EXTINGUISHING MEDIA:** Alcohol foam, dry chemical, CO<sub>2</sub>.

**FIRE FIGHTING INSTRUCTIONS:** Use self-contained breathing apparatus and full protective clothing when large amounts are involved. A stream of water may help to spread fire.

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**6. ACCIDENTAL RELEASE MEASURES**

**SPILLS:** Remove all ignition sources and ventilate area. Absorb spilled material and place in a container for disposal (e.g. incineration). Dispose of in accordance with Federal, State and local regulations.

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**7. HANDLING AND STORAGE**

**HANDLING:** Wash thoroughly after handling.

**STORAGE:** Store away from heat, sparks, or flames. Store between 40° and 120° F (4° and 49° C)

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**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

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

**RESPIRATORY PROTECTION:** Use a NIOSH/MSHA approved respirator equipped for organic vapors if exposure limits are exceeded.

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

**EYE PROTECTION:** Not normally required if used as intended. Wear chemical splash goggles in compliance with OSHA if splashing is possible.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING RANGE:** 246°– 404°F (119°– 207°C)

**MELTING POINT:** Not applicable

**VAPOR PRESSURE:** 5-7 mm Hg (68°F)

**VAPOR DENSITY:** >1

**SOLUBILITY IN WATER:** 0%

**SPECIFIC GRAVITY:** ~0.9

**ODOR:** Hydrocarbon.

**VOC:** 520-650 g/l

**APPEARANCE:** Colored, opaque liquid.

**% VOLATILE BY VOLUME:** 40-65

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**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** (conditions to avoid): Ignition sources.

**INCOMPATIBILITY:** Strong oxidizing agents, inorganic acids, strong caustics, amines, ammonia.

**HAZARDOUS DECOMPOSITION PRODUCTS:** hydrocarbons.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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**11. TOXICOLOGICAL INFORMATION**

1330-20-7 Xylene: Oral LD<sub>50</sub> 4.3g/kg (Rat); Dermal LD<sub>50</sub> 2.0g/kg. (Rabbit.)

100-41-4 Ethylbenzene: Oral LD<sub>50</sub> 3.5/kg (Rat); Dermal LD<sub>50</sub> 17.8g./kg. (Rabbit.)

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**12. ECOLOGICAL INFORMATION**

Prevent any run-off from reaching natural waterways.

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**13. DISPOSAL CONSIDERATIONS**

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

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**14. TRANSPORT INFORMATION**

IATA, IMDG, DOT: Printing Ink, 3, UN1210, PG III, Ltd. Qty.

USA GROUND SHIPMENTS: Consumer Commodity, ORM-D

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**15. REGULATORY INFORMATION**

EPCRA (SARA) Sec. 313 Reportable Materials: Xylenes, CAS No. 1330-20-7, and Ethylbenzene CAS no. 100-41-4. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer (Ethylbenzene.)

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**16. OTHER INFORMATION**

HMIS Hazard Rating: Health 2, Fire 3, Reactivity 0

NFPA Hazard Rating; Health 2, Fire 3, Reactivity 0

(4=extreme, 3=high, 2=moderate, 1=slight, 0=least).

**Caution!**

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