

MATERIAL SAFETY DATA SHEET

Universal Stenciling & Marking Systems, Inc.

Rev. Date: March 29, 2012

PRODUCT NAME: FD Black Ink (New Formula)

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: Type FD Ink. General Use: Marking on porous and non-porous surfaces.

Product Color: Black

Universal Stenciling & Marking Systems, Inc., 205 15th Avenue S.E., Saint Petersburg, FL 33701
USA tel. 727-894-3027 24-hour Emergency Phone: Chemtrec 1-800-262-8200 (USA), 1-703-741-5500
(From Anywhere In The World)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Wt./Wt. & Less Than	Exposure Limits	
			OSHA TWA	ACGIH TWA
Xylene	1330-20-7	40%	N/A	100 ppm
1, 2, 4-Trimethylbenzene	95-63-6	15%	25 ppm	25 ppm
Petroleum Distillates	64742-95-6	10%	N/A	100 ppm
Ethyl Benzene	100-41-4	10%	100 ppm	100 ppm
1, 3, 5-Trimethylbenzene	108-67-8	5%	25 ppm	25 ppm
1, 2, 3-Trimethylbenzene	526-73-8	5%	25 ppm	25 ppm

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 Ethyl benzene 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: 59°F (15° C) Method: TCC Flammable Limits: LEL 0.9% UEL 7 %

Auto-ignition Temperature: not available.

HAZARDOUS COMBUSTION PRODUCTS: CO, CO2, unidentified organic compounds.

EXTINGUISHING MEDIA: Alcohol foam, dry chemical, CO2.

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 the fire.

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.

7. HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling. Keep out of reach of children.

STORAGE: Store away from heat, sparks, flames. Store between 40° and 120° F (-15° - 9° C)

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 277° - 601° F (136° - 316° 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: 711 g/L

APPEARANCE: Colored, opaque liquid

% VOLATILE BY VOLUME: 40-65

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.

11. TOXICOLOGICAL INFORMATION

1330-20-7 Xylene: Oral LD50 4.3g/kg (Rat); Dermal LD50 2.0g/kg (Rabbit)

95-63-6 1, 2, 4-Trimethylbenzene: Oral LD50 3.4g/ kg (Rat); Dermal LD50 3.16g/kg (Rabbit)

64742-95-6 Petroleum Distillates: Oral LD50 8.4k/kg (Rat); Dermal LD50 2g/kg (Rabbit)

100-41-4 Ethyl benzene: Oral LD50 3.5/kg (Rat); Dermal LD 50 17.8g/kg (Rabbit)

108-67-8 1, 3, 5-Trimethylbenzene: Oral LD50 5g/ kg (Rat); Dermal LD50 5g/ kg (Rabbit)

526-73-8 1, 2, 3-Trimethylbenzene; Oral LD50 8.9k/ kg (Rat); Dermal LD50 10g/ kg (Rabbit)

12. ECOLOGICAL INFORMATION

Prevent any run-off from reaching natural waterways.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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

USA GROUND SHIPMENTS: Consumer Commodity, ORM-D

15. REGULATORY INFORMATION

EPCRA (SARA) Sec. 313 Reportable Materials: Xylenes, CAS No. 1330-20-7, and Ethyl Benzene CAS No.100-41-4.

California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm (Ethyl Benzene, Toluene, Benzene).

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!

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment. This MSDS is supplied under the condition that all persons receiving it will make their own evaluation as to its suitability for their purposes before using it. Responsibility for compliance with all applicable Federal, State or local regulations concerning the use and dissemination of this MSDS and sale and use of the material described herein rests solely upon the purchaser.