

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Arro-Mark Company, L.L.C. 24 HOUR EMERGENCY TELEPHONE
201-310-3495

ADDRESS: 158 West Forest Avenue
Englewood, NJ 07631 USA TELEPHONE NO. FOR INFORMATION
888-440-ARRO

TELEPHONE: (201) 567-4112

IDENTITY: Yellow Paint Marker Ink PRODUCT CLASS: Solvent based marker
ITEM NO: 01416, 01419, 01423, 01424 OTHER NAMES: PM-16, PM-19, PM-23, PM-24
Mighty Marker Paint

DATE PREPARED: February 7, 2007

SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

| Ingredient | CAS No. | OSHA PEL | ACGIH-TLV | Recommended | % |
|------------------------------|----------------|-----------------|------------------|--------------------|----------|
| Xylene | 1330-20-7 | TWA 100 ppm | TWA 100 ppm | No Data | 45-55 |
| 1-Methoxy-2-Propanol Acetate | 108-65-6 | No Data | No Data | No Data | 25-35 |
| Titanium Dioxide | 13463-67-7 | TWA 10mg/m3 | TWA 10mg/m3 | Nuisance dust | 1-10 |
| Ethyl Benzene | 100-41-4 | TWA 100 ppm | TWA 100 ppm | No Data | 1-10 |
| Diarylide Yellow | 5468-75-7 | No Data | No Data | No Data | 1-10 |

SECTION 3. HAZARDS IDENTIFICATION

DANGER! Harmful or fatal if swallowed. Flammable liquid. Keep away from heat and flames. Avoid eye contact. Use with adequate ventilation.

The Mighty Marker Paint marking pen contains from 4 to 20 ml of liquid. The liquid contents are only released in a controlled manner when the tip of the pen is pressed. No free liquid is present under normal conditions of use. This product presents only a minimal fire and exposure hazard.

HEALTH HAZARDS

INGESTION: Ingestion of significant amounts is extremely unlikely due to product form. Ingestion of liquid contents may cause vomiting.

EYES: Contact with the liquid contents may be mildly irritating to eyes. May cause redness and tearing.

SKIN: Prolonged and/or repeated contact with the liquid contents may produce mild irritation.

INHALATION: Overexposure is very unlikely due to product form. High concentrations may cause nasal and respiratory conditions. Intentional abuse may be harmful or fatal.

SECTION 4. FIRST AID MEASURES

INGESTION: Ingestion of significant amounts is extremely unlikely due to product form. DO NOT induce vomiting. Call physician.

EYE CONTACT: Flush thoroughly with water. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. If irritation develops and persists, get medical attention.

INHALATION: Inhalation overexposure is very unlikely due to product form. If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: 76°F (TCC) ASTM D56

FLAMMABLE LIMITS: LEL 1.0 UEL 13.1

EXTINGUISHING MEDIA: Use water fog, dry chemical, carbon dioxide or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE/EXPLOSION HAZARDS: The liquid content of the pen is a flammable liquid; however, the pen contains a small amount of the liquid, and the contents are released only when pressure is applied to the tip.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE: Large spills of this product are unlikely due to product form. If marking pen leaks, wipe up any free liquid, and place the pen and waste in an appropriate container for disposal. In storage where large numbers of pens may be damaged, eliminate all sources of ignition, ventilate area and collect the pens into a container for disposal. Collect any released liquid with an inert absorbent and place in a container for disposal.

SECTION 7. HANDLING AND STORAGE

HANDLING: Keep product away from open flame. Keep away from children. Replace cap on pen when not in use. Avoid contact with eyes. Avoid prolonged contact with skin.

STORAGE: Store away from heat and flame.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

| <u>Ingredient</u> | <u>ACGIH TLV</u> <u>(8-hr. TWA)</u> | <u>U.S. OSHA PEL</u> <u>(8-hr. TWA)</u> | <u>Ontario (Canada)</u> <u>TWAEV</u> | <u>UK OEL</u> <u>(8-hr. TWA)</u> |
|-------------------|--|--|--|---|
| Xylene | 100 ppm 150 ppm STEL | 100 ppm 150 ppm STEL | 100 ppm (435 mg/m ³) 150 ppm (650 mg/m ³) STEV | 100 ppm (441 mg/m ³) 150 ppm STEL, Skin |
| Ethylbenzene | 100 ppm 125 ppm STEL | 100 ppm 125 ppm STEL | 100 ppm (435 mg/m ³) 125 ppm (540 mg/m ³) STEV | 100 ppm (441 mg/m ³) 125 ppm (552mg/m ³) STEL |

EYE PROTECTION: None should be needed for normal use. Avoid eye contact.

SKIN PROTECTION: None should be needed for normal use. Avoid repeated or prolonged contact with skin.

Wear impervious gloves if needed to prevent possible skin irritation.

RESPIRATORY PROTECTION: None should be needed for normal use.

VENTILATION: No special ventilation is normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 282°F

SOLUBILITY IN WATER: Insoluble

VAPOR PRESSURE: No Data

VAPOR DENSITY: Greater than one (1)

SPECIFIC GRAVITY: >1 @ 70°F

MELTING POINT: No Data

EVAPORATION RATE: Less than one (1)

pH: No Data

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizing and reducing agents. Avoid heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide. Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data

| <u>Ingredient</u> | <u>LD50 Oral</u> <u>(mg/kg)</u> | <u>LD50 Dermal</u> <u>(mg/kg)</u> | <u>LC50 Inhalation</u> <u>(4 hrs.)</u> |
|-------------------|------------------------------------|--------------------------------------|---|
| Xylene | 5 251 (mouse) | >1 700 (rabbit) | 6 350 ppm (rat) |
| Ethylbenzene | 3 500 (rat) | 15 380 (rabbit) | 4 000 ppm (rat) |

Chronic Toxicity Data

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

| <u>Ingredient</u> | <u>ACGIH</u> | <u>IARC</u> | <u>NTP</u> |
|-------------------|--------------|-------------|------------|
| Xylene | A4 | Group 3 | Not Listed |
| Ethylbenzene | A3 | Group 2B | Not Listed |

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 – Confirmed animal carcinogen with unknown relevance to humans

A4 – Not Classifiable as a Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B – The agent is possibly carcinogenic to humans

Group 3 – The agent is not classifiable as to its carcinogenicity in humans.

NTP: (National Toxicity Program)

Irritation:

Normal use of marker will not result in harmful effects. Xylene may be irritating to the skin.

Sensitization:

Not likely to cause sensitization.

Neurological Effects:

Not expected with normal use. Xylenes act as central nervous system depressants when ingested and inhaled.

Teratogenicity:

Not expected with normal use. Xylene is considered toxic to developing fetuses.

Reproductive Toxicity:

Not available.

Mutagenicity (Genetic Effects):

Not available.

Toxicologically Synergistic Materials: Not available.

SECTION 12. ECOLOGICAL INFORMATION

No data is currently available.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Discard empty pen in trash. Dispose in accordance with federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

Not meant to be all inclusive.

Domestic Highway (Containers <1 Quart are ORM-D)

Proper Shipping Name: Consumer Commodity
Hazard Class/Subsidiary: ORM-D
UN/NA No.: None
Packing Group: None
Label Required: ORM-D

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Status: All ingredients in the product are listed on the TSCA inventory.

SARA Title III:

Sec. 302/304: None
Sec. 311/312: Flammable
Sec 313: Xylenes, Ethylbenzene
CERCLA RQ: Xylenes 100 lb., Ethylbenzene 1 000 lb.

California Prop 65:

This product contains the following chemicals known to the State of California to cause cancer: Ethylbenzene

Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

WHMIS Classification: Not Controlled.

NSNR Status (New Substance Notifications Regulations): All ingredients in the product are listed, as required, on Canada's Domestic Substances List (DSL).

NPRI Substances (National Pollutant Release Inventory):

Xylene, Ethylbenzene

Risk Phrases: None

Safety Phrases: S2: Keep out of reach of children.

SECTION 16. OTHER INFORMATION

HMIS and NFPA Ratings: 2 (Health), 3 (Flammability), 0 (Reactivity), B (Personal Protection) (4=extreme, 3=high, 2=moderate, 1=slight, 0=least) (B=gloves & safety glasses).

This information provided in the Material Safety Data Sheet has been compiled from our experience and data with similar commercially available materials and is believed to be accurate. No guarantee of accuracy is made. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and disposal procedures. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT.