



Arro-Mark

Safety Data Sheet

Issuing Date: May 15, 2015

Revision Date: May 1, 2017

Revision Number: 1

1. Identification of the Substance/Preparation and the Company Undertaking

GHS Product Identifier

Product Name: Bleed-Through Marker – Violet (Water based)

Other Means of Identification

Part Number: IM-63 (06329)

Colors: Violet

Formula Code: XV-11921

Recommended use of the chemical and restrictions on use

Recommended Use: marking pen

Uses Advised Against: No information available

Supplier's Details

Supplier Address

Arro-Mark LLC.
158 West Forest Ave
Englewood, New
Jersey, 07631 USA
Phone: (201) 567-4112

Emergency Telephone Number

Chemtrec: US 800-424-9300

International 703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communications Standard 2012 (29 CFR 1910.1200). The marking pen contains from 13 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.

GHS Label Elements, including precautionary statements

Emergency Overview

Signal Word – Danger
Hazard Statements –
Skin irritation
Eye irritation
Respiratory irritation
May be harmful if swallowed
Harmful if inhaled

May cause drowsiness or dizziness
Flammable liquid and vapour
Toxic to aquatic life



Appearance – Opaque, Violet
Physical state- liquid
Odor – Petroleum Odor

Precautionary Statements

Prevention

Do not handle until all safety precautions have been read and understood
Keep container tightly closed
Avoid breathing dust/vapors/fumes
Wash face and hands and any exposed skin thoroughly after handling
Wear protective gloves/clothing/eye protection/face protection
Use personal protection as required
Keep away from heat, sparks, open flame
No smoking
Use in a well-ventilated area
Store in well ventilated place
Keep tightly closed
Avoid release to the environment

General Advice

If exposed or concerned: get medical attention/advice

ACUTE HAZARD: At high concentration, dizziness and drowsiness may occur.

CAUTION: Contains Aromatic Hydrocarbon, Xylene, and Ethyl Benzene. Harmful or fatal if swallowed.

May cause genetic defects or cancer. Direct contact may cause skin or eye irritation.

KEEP OUT OF REACH OF CHILDREN.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. If irritation persists seek medical attention/advice.

Skin

Remove contaminated clothing. Rinse skin with water/shower. If irritation persists seek medical attention/advice.

Inhalation

Remove patient to fresh air and keep at rest in a comfortable position for breathing. Seek medical attention immediately. Deliberate concentration and inhalation can be harmful or fatal.

Ingestion

If accidentally swallowed seek medical attention immediately. Do not induce vomiting.

Fire

Use CO₂, dry chemical, alcohol-resistant foam, water fog

Spills and Leaks

Contain and collect spillage. 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.

Storage

Store in dry well ventilated place. Eliminate all sources of ignition. Store away from heat and flame. Keep tightly sealed. Prevent unauthorized access.

Disposal

Dispose of contents/container in approved waste disposal plant

Hazard not Otherwise Classified (HNOC)

Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS
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Chemical Name	CAS -No	Weight %	Trade Secret
Xylene	1330-20-7	60-70	*
Aromatic Hydrocarbon	64742-95-6	1-10	*
1,2,4, Trimethyl Benzene	95-63-6	1-10	*
Ethyl Benzene	100-41-4	1-10	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice	In case of doubt, or when symptoms persist, seek medical attention. Do not leave victim unattended.
Eye Contact	Immediately flush eyes with plenty of water for at least fifteen (15) minutes. Remove contact lenses. Get medical attention immediately.
Skin Contact	Flush skin with plenty of water. Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleanser.
Inhalation:	Remove to fresh air, keep patient warm and at rest. If breathing is irregular seek medical advice. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Ingestion	Seek medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Protection of First Aiders Use personal protection equipment.

Most important symptoms/effects. acute and delayed

Most important symptoms/effects Drowsiness, blurred vision if concentrated and inhaled.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, carbon dioxide, alcohol resistant foam, water fog. For large fires, use foam.

Unsuitable extinguishing media High volume water jet

FLASH POINT: 76°F (TCC) ASTM D56
FLAMMABLE LIMITS: LEL 1.0 UEL 13.1

Specific Hazards arising from the chemical Vapors explosive if collected. Do not allow run off from fire-fighting to run into drains or water courses.

Protective Equipment and Precautions for Firefighters

Wear appropriate self-contained breathing apparatus MSHA/NIOSH (approved or equivalent) and full protective gear. Cool closed containers exposed to fire with water spray. Avoid inhalation of material or combustion by-products; stay upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid breathing vapours. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions Avoid release into the environment. Do not allow to enter drains or watercourses. If the product contaminates rivers, lakes or drains, inform respective authorities.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. 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

Methods for Cleaning Up Contain the spillage with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth to soak up the product and place in a suitable container for disposal in accordance with the waste regulations

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid skin and eye contact. Avoid the inhalation of vapor and mist. Keep away from open flame and sources of ignition. Replace cap on pen when not in use.

Conditions for safe storage, including any incompatibilities

Storage Keep away for open flame, hot surfaces and sources of ignition. Keep containers tightly closed. Observe label precautions. Store between 5-25° C in a dry, well ventilated place. Prevent unauthorized access.

Incompatible products Strong oxidizing and reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

Engineering Measures Showers, eyewash stations, ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face protection None under normal use conditions

Skin and body Protection None under normal use conditions

Respiratory Protection None under normal use conditions. If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn

Hygiene Measures Use in a well-ventilated area. When using do not eat, drink, or smoke. Provide regular cleaning of equipment, work areas and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<u>Property</u>	<u>Value</u>
Boiling Point	282°F
Specific Gravity	>1 @ 70°F
Solubility in water	Insoluble
Melting Point	No Data
Vapor Pressure	No Data
Evaporation Rate	Less than one (1)
Vapor Density	Greater than one (1)
pH	No Data
Odor	Petroleum Odor
Color	Opaque Red

10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical Stability	Stable under normal storage and handling conditions
Possibility of Hazardous reactions	None under normal use
Hazardous Polymerization	Will not occur
Conditions to Avoid	Heat, open flame, sparks, and sources of ignition
Incompatible Materials	Strong oxidizing and reducing agents
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information There is no data available on the product itself.

Acute Toxicity Data

<u>Ingredient</u>	<u>LD50 Oral (mg/kg)</u>	<u>LD50 Dermal (mg/kg)</u>	<u>LC50 Inhalation (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.

12. ECOLOGICAL INFORMATION

Ecotoxicity There is no data available on the product itself

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with all applicable local, state and federal regulations. Do not allow to enter into drains, water courses or the soil.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

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

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 Domestic) All ingredients in the product are listed, as required, on Canada's Domestic

Notifications Regulations: Substances List (DSL).

NPRI Substances (National Pollutant Release Inventory): Xylene, Ethylbenzene

Risk Phrases: None

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

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).

End of Safety Data Sheet