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*This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.*

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

**GHS Product Identifier**

Product Form/Description:	<b>Marking Pens</b>
Product Name:	IM-81
Synonyms:	<b>Marine/Industrial Shrink Wrap Marker</b>
Color:	<b>Black</b>

**Other Means of Identification**

Part Number:

Colors	Black
IM-81	00181

**Recommended use of the chemical and restrictions on use**

Recommended Use	Marking
Uses Advised Against:	No information available

**Supplier's Details**

Supplier Address	Arro-Mark Company LLC. 158 West Forest Ave Englewood, New Jersey, 07631 USA Phone: (201) 567-4112 Email: Sales@arromark.com
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**Emergency Telephone Number**

Chemtrec	US 800-424-9300	International 703-527-3887
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**2. HAZARD IDENTIFICATION**

**Classification**

This chemical is considered hazardous according to the OSHA Hazard Communications Standard 2012 (29 CFR 1910.1200):

Flammable Liquid Category	3
Skin Corrosion/Irritation Category	2
Serious Eye Irritation Category	2A
Aspiration Hazard Category	1
Carcinogenicity Category	1B
Germ cell mutagenicity Category	1B
Specific target Organ Toxicity (single Exposure) Category	3
Specific target Organ Toxicity (repeated Exposure) Category	2
Reproductive Toxicity Category	1B

**GHS Label Elements, including precautionary statements**

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**Signal Word: Danger**

Appearance:	Thin viscosity liquid
Physical state:	Liquid
Odor:	Aromatic odor

**Hazard Statements:**

<u>Code</u>	<u>Statement</u>
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H304	May be fatal if swallowed and enters airways
H373	May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements:**

<u>Prevention</u>	<u>Response</u>	<u>Storage</u>	<u>Disposal</u>
<p>Do not handle until all safety precautions have been read and understood.</p> <p>Obtain special instructions before use.</p> <p>Keep container tightly closed Use only in a well ventilated area.</p> <p>Do not breathe dust/vapors/fumes</p> <p>Wash face and hands and any exposed skin thoroughly after handling.</p> <p>Wear protective gloves/clothing/eye protection/face protection.</p> <p>Keep away from heat/sparks/flame hot surfaces – no smoking.</p> <p>Use explosion proof electrical/ventilating/lighting equipment</p> <p>Ground/bond container and receiving equipment.</p> <p>Use non-sparking tools.</p> <p>Take precautionary measures against static discharge.</p>	<p>If exposed or concerned: get medical attention/advice.</p> <p>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</p> <p>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.</p> <p>If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.</p> <p>If swallowed: Immediately call a poison center/doctor. Do not induce vomiting. In case of fire: Use CO2, dry chemical, foam or water spray to extinguish.</p>	<p>Store in a well-ventilated place. Keep cool.</p> <p>Store locked up.</p> <p>Keep container tightly closed.</p>	<p>Dispose of contents/container in approved waste disposal plant.</p>

**General Advice**



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If exposed or concerned:	Get medical attention/advice
ACUTE HAZARD:	At high concentration, dizziness and unconsciousness may occur.
CAUTION:	Contains Xylene. Harmful or fatal if swallowed. Avoid inhalation. Direct contact may cause skin or eye irritation.

**KEEP OUT OF REACH OF CHILDREN.**

Fire	Use CO2, dry chemical, foam, or water spray
Spills and Leaks	Contain and collect spillage
Hazard not Otherwise Classified (HNOC)	Not applicable

**3. COMPOSITION / INFORMATION ON INGREDIENTS****Hazardous substance(s) or Complex Substance(s) required for disclosure**

<u>Chemical Name</u>	<u>CAS -No</u>	<u>Weight %</u>	<u>Trade Secret</u>
Solvent Naphtha (Petroleum), Light Aromatic	64742-95-6	50-60	*
bis(2-ethylhexyl) hydrogen phosphate	298-07-7	<5	
Xylene	1330-20-7	<5	
N-methyl-2-pyrrolidone	872-50-45	<5	
ethylbenzene	100-41-4	0.1-1	

\* 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.
Eye Contact	Immediately flush eyes with plenty of water for at least fifteen (15) minutes. 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	No information available
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**Indication of immediate medical attention and special treatment needed, if necessary**

Note to physician	Treat symptomatically
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**5. FIRE-FIGHTING MEASURES**



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**Suitable Extinguishing Media**

Dry chemical, carbon dioxide, and regular foam. For large fires, use foam or flood with fine water spray

**Unsuitable Extinguishing media**

No information available

**Specific Hazards arising from the chemical**

Flash Point:	108°F
Flammability Limits (% by volume):	No Data
Unusual Fire Explosion Hazards:	No Data

**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 vapors. Evacuate personnel to safe areas. Ensure adequate ventilation.
Environmental Precautions:	Avoid release into the environment. Do not allow entrance to drains or water-courses.

**Methods and materials for containment and cleaning up**

Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Contain the spillage with non-combustible absorbent materials such as sand, earth, vermiculite, and diatomaceous earth. This will soak up the product. 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.
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**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	Unknown

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

Exposure Guidelines:

<u>Chemical Name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Solvent Naphtha	TWA: 200 mg/m3	TWA: 500 ppm TWA: 2,000 mg/m3	



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Xylene	TWA: 651 mg/m3, 150 ppm	TWA: 435 mg/m3, 100 ppm	
ethylbenzene	TWA: 87 mg/m3, 20 ppm	TWA: 435 mg/m3, 100 ppm	

**Appropriate engineering controls**

Engineering Measures	Showers, eyewash stations, ventilation systems
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**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**

Property	Value	Remarks/Method
Physical State:	Liquid	None Known
Appearance and Odor:	Thin viscosity liquid with Aromatic odor.	None Known
Odor Threshold:	No Data	None Known
Vapor Density (AIR = 1):	>1	None Known
Vapor Pressure (mm-Hg @ 70°F):	No Data	None Known
Flash Point:	108°F	None Known
Specific Gravity (H20=1) @70°F:	<1	None Known
Flammability:	No Data	None Known
Auto-ignition Temperature:	No Data	None Known
Decomposition Temperature:	No Data	None Known
Melting Point:	No Data	None Known
Freezing Point:	No Data	None Known
Boiling Point:	318-330°F	None Known
Relative Evaporation Rate (Butyl Acetate = 1):	No Data	None Known
Solubility in Water:	No Data	None Known
Log Pow:	No Data	None Known
PH:	No Data	None Known
5iscosity (Kinematic):	No Data	None Known
5iscosity (Dynamic):	No Data	None Known
Explosive limits	No Data	None Known
Explosive Properties	No Data	None Known
Oxidizing Properties	No Data	None Known
Volatile Organic Compound:	Chart Below	None Known

Color	Percentage (% by weight)	g/L
Black	71%	638

**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



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Hazardous Polymerization	Will not occur
Conditions to Avoid	Heat, open flame, sparks, and sources of ignition
Incompatible Materials	Strong oxidizing and reducing agents, strong alkalis and strong acids
Hazardous Decomposition products	Carbon dioxide, carbon monoxide, smoke, soot and various oxidation by-products.

**11. TOXICOLOGICAL INFORMATION**

Product Information	There is no data available on the product itself
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**12. ECOLOGICAL INFORMATION**

Ecotoxicity	There is no data available on the product itself
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**13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods	Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated Packaging	Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

**DOT (Ground)**

<b>UN-Number</b>	UN1210
<b>Proper Shipping Name</b>	Printing Ink
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1210, Printing Ink, 3, PG III, Limited Quantity
<b>Emergency Response Number</b>	129

**TDG (Ground)**

<b>UN-Number</b>	UN1210
<b>Proper Shipping Name</b>	Printing Ink
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1210, Printing Ink, 3, PG III, Limited Quantity

**MEX (Ground)**

<b>UN-Number</b>	UN1210
<b>Proper Shipping Name</b>	Printing Ink
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1210, Printing Ink, 3, PG III, Limited Quantity

**IMDG/IMO (Sea)**

<b>UN-Number</b>	UN1210
<b>Proper Shipping Name</b>	Printing Ink
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>EmS No.</b>	F-E, S-D
<b>Description</b>	UN1210, Printing Ink, Class 3, PG III (42.2°C c.c.), Limited Quantity

**IATA (Air)**

<b>UN-Number</b>	UN1210
<b>Proper Shipping Name</b>	Printing Ink
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>ERG Code</b>	3L
<b>Description</b>	UN1210, Printing Ink, 3, PG III, Limited Quantity

**15. REGULATORY INFORMATION**

TSCA INVENTORY:	The product on this SDS is not listed on the Toxic Substances Control Act Inventory. All ingredients used to manufacture this product are listed on the TSCA Inventory.
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**US Regulatory Rules:**

Section 313 or Title III of SARA. This product contains a chemical, which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations Part 372.

Xylene, Ethylbenzene

**Hazard categories**

Acute Health Hazard	YES
Chronic Health Hazard	YES
Fire Hazard	YES
Sudden release of Pressure Hazard	NO
Reactive Hazard	NO

**State Regulation**

California Proposition 65	Ethylbenzene Listed (cancer)
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**16. OTHER INFORMATION**

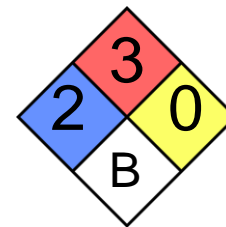
**HMIS CLASSIFICATION**

Health Hazard:	2
Flammability:	3
Physical Hazard:	0
PPE	B Splash Goggles, Gloves

Health Hazard: 2
Flamability: 3
Physical Hazard: 0
Personal Protection: B

**NFPA CLASSIFICATION**

Health Hazard	2
Flammability	3
Reactivity	0
Personal Protection	B



The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Arro-Mark Company, LLC Compliance Department

**End of Safety Data Sheet**