



<b>Date of Issue:</b> 11/06/2018	<b>Latest Revision:</b> 8/20/2024	<b>Revision #:</b> 3
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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:	<b>PM-68</b>
Synonyms	<b>Mighty Marker ® “DG”</b>

**Other Means of Identification**

Part Number:

Colors	Black	Blue	Red	Green	White	Yellow
PM-63	06801	06802	06811	06805	06813	06814

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

Recommended Use	Marking Pens
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):

Acute Inhalation Toxicity Category	4
Eye irritation Category	2
Carcinogenicity Category	2
Specific Target Organ Toxicity (Single Exposure) Category	3
Flammable liquids Category	2

**GHS Label Elements, including precautionary statements**





Date of Issue: 11/06/2018

Latest Revision: 8/20/2024

Revision #: 3

**Signal Word: Danger**

**Hazard Statements:**

H225	Highly Flammable liquid and vapor
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer

**Precautionary Statements:**

<b><u>Prevention</u></b>	<b><u>Response</u></b>	<b><u>Storage</u></b>	<b><u>Disposal</u></b>
<ul style="list-style-type: none"> <li>Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wash face, hands and any exposed skin thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Use personal protective equipment as required.</li> <li>Wear eye/face protection.</li> <li>Keep away from heat/sparks/open flames/hot surfaces - No smoking.</li> <li>Keep container tightly closed.</li> <li>Ground/bond container and receiving equipment.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against static discharge.</li> <li>Keep cool</li> </ul>	<p><b>Eyes</b></p> <ul style="list-style-type: none"> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If eye irritation persists: Get medical advice/attention.</li> </ul> <p><b>Skin</b></p> <ul style="list-style-type: none"> <li>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> </ul> <p><b>Inhalation</b></p> <ul style="list-style-type: none"> <li>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> </ul> <p><b>Ingestion</b></p> <ul style="list-style-type: none"> <li>IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</li> </ul> <p>Rinse mouth.</p> <p><b>Fire</b></p> <ul style="list-style-type: none"> <li>In case of fire: Use CO2, dry chemical, or foam for extinction.</li> </ul> <p><b>Spills and Leaks</b></p> <ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>Store locked up.</li> <li>Store in a well-ventilated place. Keep container tightly closed.</li> </ul>	<ul style="list-style-type: none"> <li>Dispose of contents/container to an approved waste disposal plant.</li> </ul>

**General Advice**

If exposed or concerned:	Get medical attention/advice
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**KEEP OUT OF REACH OF CHILDREN.**

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous substance(s) or Complex Substance(s) required for disclosure**

<b><u>Chemical Name</u></b>	<b><u>CAS -No</u></b>	<b><u>Weight %</u></b>
Methyl isobutyl ketone	108-10-1	55-65

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

**4. FIRST AID MEASURES**



<b>Date of Issue:</b> 11/06/2018	<b>Latest Revision:</b> 8/20/2024	<b>Revision #:</b> 3
----------------------------------	-----------------------------------	----------------------

**Description of necessary first-aid measures**

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash skin with soap and water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Inhalation:	Move to fresh air. If symptoms persist, call a physician. If breathing is difficult, give oxygen
Ingestion:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Consult a physician if necessary.
Protection of First Aiders:	Use personal protective equipment. Remove all sources of ignition.

**Most important symptoms/effects, acute and delayed**

Most important symptoms/effects	Eye irritation/reactions.
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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**

**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**

Unusual Fire Explosion Hazards:	Flammable. Keep product and empty container away from heat and sources of ignition. Risk of ignition.
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**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH(approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Personal Precautions:	Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Stop leak if you can do it without risk. Take precautionary measures against static discharges. Pay attention to flashback. All equipment used when handling the product must be grounded.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

**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	Ground and bond containers when transferring material. Small spillage: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large spillage: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product.

**7. HANDLING AND STORAGE**



Date of Issue: 11/06/2018

Latest Revision: 8/20/2024

Revision #: 3

**Precautions for safe handling**

Handling	Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
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**Conditions for safe storage, including any incompatibilities**

Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Keep container closed when not in use. Keep away from incompatible materials.
Incompatible products	Strong oxidizing agents. Strong acids. Strong reducing agents. Strong alkalis.

**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>
Methyl isobutyl ketone 108-10-1	STEL: 75 ppm TWA: 20 ppm	TWA: 100 ppm TWA: 410 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 205 mg/m <sup>3</sup> (vacated) STEL: 75 ppm (vacated) STEL: 300 mg/m <sup>3</sup>	IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 300 mg/m <sup>3</sup>

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

**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**

<u>Property</u>	<u>Value</u>	<u>Remarks/Method</u>
Physical State:	No Data Available.	None Known
Appearance and Odor:	No Data Available.	None Known
Odor Threshold:	No Data Available.	None Known
Vapor Density (AIR = 1):	> 1 (air = 1)	None Known
Vapor Pressure (mm-Hg @ 70°F):	No Data Available.	None Known
Flash Point:	15.56 °C / 60 °F	Tag closed cup
Specific Gravity (H2O=1) @70°F:	No Data Available.	None Known
Flammability:	No Data Available.	None Known
Auto-ignition Temperature:	No Data Available.	None Known
Decomposition Temperature:	No Data Available.	None Known
Melting Point:	No Data Available.	None Known
Freezing Point:	No Data Available.	None Known



Date of Issue: 11/06/2018

Latest Revision: 8/20/2024

Revision #: 3

Boiling Point:	117.22 °C / 243 °F	None Known
Relative Evaporation Rate (Butyl Acetate = 1):	1.6 (BuAc = 1)	None Known
Solubility in Water:	Moderate	None Known
Log Pow:	No Data Available.	None Known
PH:	No Data Available.	None Known
Viscosity (Kinematic):	No Data Available.	None Known
Viscosity (Dynamic):	No Data Available.	None Known
Explosive limits	No Data Available.	None Known
Explosive Properties	No Data Available.	None Known
Oxidizing Properties	No Data Available.	None Known
Volatile Organic Compound:	Below	None Known

**Volatile Organic Compounds**

<b>Color</b>	<b>Percentage</b> (% by weight)	<b>g/L</b>
Black	85.99%	757 g/L
Blue	87.24%	762 g/L
Green	86.51%	761 g/L
Red	88.77%	796 g/L
White	86.1%	757 g/L
Yellow	89.03%	778 g/L

**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, strong alkalis and strong acids
Hazardous Decomposition products	Carbon dioxide, carbon monoxide, smoke, soot and various oxidation by-products.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Inhalation	May cause irritation of respiratory tract. May cause drowsiness and dizziness.
Eye Contact	Irritating to eyes. Causes serious eye irritation.
Skin Contact	Irritating to skin. Causes skin irritation.
Ingestion	Ingestion may cause nausea and vomiting.

<b>Chemical</b>	<b>LD50 oral</b>	<b>LD50 Dermal</b>	<b>LD50 Inhalation</b>
Methyl isobutyl ketone	= 2080 mg/kg ( Rat )	> 16000 mg/kg ( Rabbit )	= 8.2 mg/L ( Rat ) 4 h

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms	No information available.
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**Delayed and immediate effects and also chronic effects from short and long term exposure**

Respiratory or Skin Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

**12. ECOLOGICAL INFORMATION**

Ecotoxicity	There is no data available on the product itself
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Date of Issue: 11/06/2018

Latest Revision: 8/20/2024

Revision #: 3

**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)**

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II
Description	UN1263, Paint, 3, PG III, Limited Quantity
Emergency Response Number	128

**IMDG/IMO (Sea)**

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II
EmS No.	F-E, S-E
Description	UN1263, Paint, Class 3, PG III (15.56°C c.c.), Limited Quantity

**IATA (Air)**

UN-Number	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1263, Paint, 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.

Methyl Isobutyl Ketone
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**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	Methyl Isobutyl Ketone
New Jersey Right to Know	Methyl Isobutyl Ketone

**16. OTHER INFORMATION**



Date of Issue: 11/06/2018	Latest Revision: 8/20/2024	Revision #: 3
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**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**