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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:	Water-based Paint Marker
Product Name:	FM-74
Product Name:	Flomaster® Permanent Paint Marker

Other Means of Identification

Part Numbers

Blue	White	Yellow	Red	Green	Orange	Silver	Purple
00274	01374	01474	01174	00574	00874	01274	00974

Recommended use of the chemical and restrictions on use

Recommended Use	Art Products Marking Pen for porous and non-porous surfaces
Uses Advised Against:	No information available

Supplier's Details

Manufacturer 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

This Material is considered hazardous by the OSHA Hazard Communication Standard (CFR 1910.1200)

Classification of the substance or mixture

Physical Hazards	Not Classified
Health Hazards	Not Classified
Environmental Hazards	Not Classified

Label Elements

Hazard Statements	(NC) Not Classified – Not a hazardous substance or mixture.
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Other Hazards

This product does not contain any substances classified as PBT or vPvB

GHS Label Elements



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Appearance:	Opaque Colors, varies
Physical state:	Aqueous
Odor:	Little to no odor

Hazard Statements:

<u>Code</u>	<u>Statement</u>
H315	Causes skin irritation. Causes serious eye irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS**Hazardous substance(s) or mixture(s) (Paint Marker)**

<u>Chemical Name</u>	<u>CAS -No</u>	<u>Weight %</u>	<u>Trade Secret</u>
Amphorous Silica	112926-00-8	~1%	*
Ethanol	64-17-5	~3%	*
Water	7732-18-5	~60%	*
Styrene-Acrylate	100-42-5	~15%	*
Ammonia	7664-41-7	~1%	*
Pigment	Registered	~20%	*
Butoxyethanol	11-76-2	~3%	*
Additives	Registered	~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	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	Due to the physical nature of this product, exposure by this route is unlikely. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. No specific recommendations. If throat irritation or coughing persists, proceed as follows. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur. IF SWALLOWED: Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person.
Skin Contact	Wash skin thoroughly with soap and water.
Eye Contact	Due to the physical nature of this product, exposure by this route is unlikely. IF IN EYES: Remove any contact lenses and open eyelids wide apart. Rinse with water. Do not rub eye.
Protection of First Aiders	Use protective equipment appropriate for surrounding materials.

Most important symptoms/effects, acute and delayed

General Information	The product is considered to be a low hazard under normal conditions of use. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known. Due to the physical nature of this product, exposure by this route is unlikely.
Ingestion	No specific symptoms known.
Skin Contact	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

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

Note to Physician	Treat symptomatically
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Specific Treatments	No Specific Treatment Required
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards arising from the chemical

Containers can burst violently or explode when heated, due to excessive pressure build-up.

Protective Equipment and Precautions for Firefighters

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precautions:	The product is not expected to be hazardous to the environment.

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	Reuse or recycle products wherever possible. Collect spillage. Dispose of contents/container in accordance with national regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood.
Advice on general occupational hygiene	Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Precautions	No Specific recommendations.
Storage Class	Unspecified Storage

Specific End Uses

Specific end Uses	The identified uses for this product are detailed in Section 1.2.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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Exposure Controls

Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	No specific eye protection required during normal use.
Hygiene measures	Good personal hygiene procedures should be implemented. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection not required.
Environmental exposure controls	Not regarded as dangerous for the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Property	Value	Remarks/Method
Physical State:	Liquid	None Known
Appearance and Odor:	Opaque, thin viscosity liquid with little to no odor.	None Known
Odor Threshold:	No Data	None Known
Vapor Density (AIR = 1):	Greater than one (1)	None Known
Vapor Pressure (mm-Hg @ 70°F):	No Data	None Known
Flash Point:	Not Applicable	Tag closed cup
Specific Gravity (H2O=1) @70°F:	>1	None Known
Flammability:	Not Applicable	None Known
Auto-ignition Temperature:	Not Applicable	None Known
Decomposition Temperature:	No Data	None Known
Melting Point:	<-10°C	None Known
Freezing Point:	Water / 0°C	None Known
Boiling Point:	Water / 100°C	None Known
Relative Evaporation Rate (Butyl Acetate = 1):	Less than one (1)	None Known
Solubility in Water:	Soluble	None Known
Log Pow:	No Data	None Known
PH:	7-8.5	None Known
Viscosity (Kinematic):	No Data	None Known
Viscosity (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:	Water / 60-70%	None Known

10. STABILITY AND REACTIVITY

Reactivity	There are no known reactivity hazards associated with this product
Chemical Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of Hazardous reactions	No potentially hazardous reactions known.
Hazardous Polymerization	Will not occur
Conditions to Avoid	There are no known conditions that are likely to result in a hazardous situation.
Incompatible Materials	None known.
Hazardous Decomposition products	Does not decompose when used and stored as recommended.

11. TOXICOLOGICAL INFORMATION**Information on Toxicological Effects**

Toxicological effects	Information given is applicable to the product as supplied. The product is considered to be a low hazard under normal conditions of use.
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Acute Toxicity Oral

Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
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Acute Toxicity Dermal

Notes (dermal LD ₅₀)	Based on available data the classification criteria are not met.
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Acute Toxicity Inhalation

Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
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Skin Corrosion/Irritation

Animal data	Based on available data the classification criteria are not met.
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Serious Eye Damage/Irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.
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Respiratory Sensitization

Respiratory sensitisation	Based on available data the classification criteria are not met.
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Skin Sensitization

Skin sensitization	Based on available data the classification criteria are not met.
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Germ Cell Mutageny

Genotoxicity - in vitro	Based on available data the classification criteria are not met.
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Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	The product is not believed to present a hazard due to its physical nature. None of the Ingredients are listed or exempt.

Reproductive Toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific Target Organ toxicity – single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
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Specific Target Organ toxicity – repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
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Aspiration Hazard

Aspiration hazard	Based on available data the classification criteria are not met.
General information	The product is considered to be a low hazard under normal conditions of use. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known. May cause discomfort. Harmful dust may be released during cutting or grinding process.
Skin Contact	No specific health hazards known.
Eye contact	No specific health hazards known.
Target Organs	No specific target organs known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity	Not regarded as dangerous for the environment.
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Toxicity

Toxicity	The product is not believed to present a hazard due to its physical nature.
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Persistence and Degradability

Persistence and degradability	The degradability of the product is not known.
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Bioaccumulative Potential

Bio-accumulative Material	No data available on bioaccumulation.
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Mobility in Soil

Mobility	The product is non-volatile.
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Other Adverse Effects

Other Adverse Effects	None known
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13. DISPOSAL CONSIDERATIONS

Waste treatment methods

General Information	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste Class	17 02 04* glass, plastic and wood containing or contaminated with hazardous substances

14. TRANSPORT INFORMATION

<u>(Ground Transport) US DOT</u>	<u>(Sea Transport) IMDG/IMO</u>	<u>(Air Transport) IATA/ICAO</u>
Not classified as a dangerous good under transport regulations	Not classified as a dangerous good under transport regulations	Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

Statement of Conformance for Art Materials:

FROM: John J Clary, PH. D. Fellow ATS.

ART MATERIAL: Arro-Mark® Company L.L.C., Its franchises, Distributors, and Dealers.

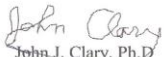
This Review is based on current chemical composition of the above named material, and specific information is acute and chronic toxicity, physical form, bioavailability, and concentrations used, standard practices and related information. The risk assessment on the material itself is attached. This material must be re-evaluated at least every five years (January 23 2020).

In my professional judgment, based on this evaluation, your art material listed above conforms to ASTM D 4236 (LHMA - 16 CFR 1500.14). It is my opinion that this material under reasonable handling or use (includes reasonable foreseeable accidental handling or use) should not cause personal injury or substantial illness nor would it be expected to be toxic, corrosive, or combustible, an irritant or a strong sensitizer by the oral, dermal, or inhalation routes of exposure as defined in the FHSA Regulations (16 CFR 1500.3 (b), (5), (8), (9)).

The statement 'Conforms to ASTM D 4236" is required for chronic toxicity on the label.

No labeling is required under the provisions of The California Safe Drinking Water and Toxic Enforcement Act of 1986

This Material is Determined to be Non- Toxic under Proposed us Conditions.


 John J. Clary, Ph.D.
 Certified in General Toxicology
 Fellow, A.T.S

Regulatory Status:



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This product has been evaluated by a toxicologist and labeled for acute and chronic health hazards in accordance with the Labeling of Hazardous Art Materials Regulation and Federal Regulation 16 CFR 1500.14 of the Federal Hazardous Substances Act. This product conforms to ASTM D-4236 Standard Practice for Labeling Art Materials for Chronic Adverse health effects. This product has been certified by ACMI (Artists Craft Material Institute, Inc.) to carry the AP(Approved Product) Seal, meaning this product bears no chronic or acute human health hazards.

US Federal Regulations:

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities	None of the ingredients are listed or exempt.
CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)	None of the ingredients are listed or exempt.
SARA Extremely Hazardous Substances EPCRA Reportable Quantities	None of the ingredients are listed or exempt.
SARA 313 Emission Reporting	None of the ingredients are listed or exempt.
CAA Accidental Release Prevention	None of the ingredients are listed or exempt.
FDA - Essential Chemical	None of the ingredients are listed or exempt.
FDA - Precursor Chemical	None of the ingredients are listed or exempt.

US State Regulations:

California Proposition 65 Carcinogens and Reproductive Toxins	None of the ingredients are listed or exempt.
California Air Toxics "Hot Spots" (A-I)	None of the ingredients are listed or exempt.
California Air Toxics "Hot Spots" (A-II)	None of the ingredients are listed or exempt.
California Directors List of Hazardous Substances	None of the ingredients are listed or exempt.
Massachusetts "Right To Know" List	None of the ingredients are listed or exempt.
Rhode Island "Right To Know" List	None of the ingredients are listed or exempt.
Minnesota "Right To Know" List	None of the ingredients are listed or exempt.
New Jersey "Right To Know" List	None of the ingredients are listed or exempt.
Pennsylvania "Right To Know" List	None of the ingredients are listed or exempt.

Inventories:

US - TSCA	None of the ingredients are listed or exempt.
US - TSCA 12(b) Export Notification	None of the ingredients are listed or exempt.



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16. OTHER INFORMATION

General Information	This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only. As supplied, this product does not meet the requirements for labeling.
Training Advice	Read and follow manufacturer's recommendations

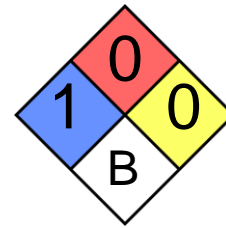
HMIS CLASSIFICATION

Health Hazard:	1
Flammability:	0
Physical Hazard:	0
PPE	Splash Goggles, Gloves, Apron

Health Hazard:	1
Flamability:	0
Physical Hazard:	0
Personal Protection:	B

NFPA CLASSIFICATION

Health Hazard	1
Flammability	0
Reactivity	0
Personal Protection	B



End of Safety Data Sheet