



# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name M3 All Purpose Marker

### Other means of identification

Product Code(s) Black# 10571, Blue #10572, Green #10573, Red #10574, Violet #10578

UN-Number UN1210

Synonyms None

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

Recommended Use Solvent based marker

Uses advised against Keep away from children. Not for use on skin.

### Supplier's details

#### **Supplier Address**

U-Mark, Inc  
102 Iowa Ave.  
Belleville, IL 62220  
TEL: 618-235-7500

### Emergency telephone number

Emergency Telephone Number 24-hour Emergency Phone: Infotrac 1-800-535-5053 (USA & Canada), 1-352-323-3500 (International)

## 2. HAZARDS IDENTIFICATION

### Classification

This product is an article as defined by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200). No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemicals. The classification below applies to the liquid ink in this marker.

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labeling. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236

### GHS Label elements, including precautionary statements

#### Emergency Overview

Keep away from children.

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Varies

Physical State Liquid.

Odor Mild

**Precautionary Statements****Prevention**

- None

**General Advice**

- None

**Storage**

- None

**Disposal**

- None

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
n-Propyl alcohol	71-23-8	<45	*
Ethanol	64-17-5	<45	*
Ethylene glycol monopropyl ether	2807-30-9	<5	*

*\*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**

Under normal conditions of use first aid is not required.

**Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.

**Skin Contact**

Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation**

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

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

**Most Important Symptoms/Effects** None known

**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

**Specific Hazards Arising from the Chemical**

The ink contained in this product is flammable but not readily ignited.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**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** Remove all sources of ignition.

**Environmental Precautions**

**Environmental Precautions** Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

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

**Methods for Containment** None required.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Keep away from open flames, hot surfaces and sources of ignition.

**Conditions for safe storage, including any incompatibilities**

**Storage** Store in a well-ventilated place. Keep cool.

**Incompatible Products** None known based on information supplied.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** The following exposure limits are provided for information only; exposure is not expected under normal conditions of use or storage.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
n-Propyl alcohol 71-23-8	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 625 mg/m <sup>3</sup>

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

**Appropriate engineering controls**

**Engineering Measures** None under normal use conditions.

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	No protective equipment is needed under normal use conditions.
<b>Skin and Body Protection</b>	No protective equipment is needed under normal use conditions.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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

<b>Physical State</b>	Liquid.	<b>Appearance</b>	Varies.
<b>Odor</b>	Mild.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	96 °C / 205 °F	None known
<b>Flash Point</b>	23 °C / 73 °F	(Liquid Ink only)
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	13.5%	
lower flammability limit	2.1%	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	.9418	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

**Flammable Properties** Highly flammable.

**Explosive Properties** No data available

**Oxidizing Properties** No data available

**Other information**

**VOC Content (%)** No data available

**10. STABILITY AND REACTIVITY****Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

### **Incompatible materials**

None known based on information supplied.

### **Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	None under normal use conditions
<b>Eye Contact</b>	None under normal use conditions.
<b>Skin Contact</b>	None under normal use conditions.
<b>Ingestion</b>	None under normal use conditions.

### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	= 7060 mg/kg ( Rat )	-	= 124.7 mg/L ( Rat ) 4 h
n-Propyl alcohol	= 1870 mg/kg ( Rat )	= 4049 mg/kg ( Rabbit )	> 13548 ppm ( Rat ) 4 h
Ethylene glycol monopropyl ether	= 3089 mg/kg ( Rat )	= 960 µL/kg ( Rabbit )	-

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

**Symptoms** None under normal use.

### **Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X

#### **ACGIH: (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

#### **IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

#### **NTP: (National Toxicity Program)**

Known - Known Carcinogen

#### **OSHA: (Occupational Safety & Health Administration)**

X - Present

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

### **Numerical measures of toxicity - Product**

*The following values are calculated based on chapter 3.1 of the GHS document:* Not applicable

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Not Applicable

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethanol 64-17-5		LC50 96 h: 12.0 - 16.0 mL/L static (Oncorhynchus mykiss) LC50 96 h: > 100 mg/L static (Pimephales promelas) LC50 96 h: 13400 - 15100 mg/L flow-through (Pimephales promelas)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50 48 h: 9268 - 14221 mg/L (Daphnia magna) EC50 24 h: = 10800 mg/L (Daphnia magna) EC50 48 h: = 2 mg/L Static (Daphnia magna)
n-Propyl alcohol 71-23-8		LC50 96 h: = 4480 mg/L flow-through (Pimephales promelas)	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	EC50 48 h: = 3642 mg/L (Daphnia magna) EC50 48 h: 3339 - 3977 mg/L Static (Daphnia magna)

**Persistence and Degradability** No information available.**Bioaccumulation** No information available.

Chemical Name	Log Pow
n-Propyl alcohol	0.34
Ethanol	-0.32

**Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with local regulations.**Contaminated Packaging** Not Applicable

## 14. TRANSPORT INFORMATION

**DOT**

**UN-Number** UN1210  
**Proper shipping name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1210, Printing ink, 3, III, Limited Quantity  
**Emergency Response Guide Number** 129

**TDG**

**UN-Number** UN1210  
**Proper Shipping Name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1210, Printing ink, 3, III, Limited Quantity

**MEX**

**UN-Number** UN1210  
**Proper Shipping Name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1210, Printing ink, 3, III, Limited Quantity

**ICAO**

**UN-Number** UN1210  
**Proper shipping name** Printing ink

**Hazard Class** 3  
**Packing Group** III  
**Description** UN1210, Printing ink, 3, III, Limited Quantity

**IATA**

**UN-Number** UN1210  
**Proper Shipping Name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**ERG Code** 3L  
**Description** UN1210, Printing ink, 3, III, Limited Quantity

**IMDG/IMO**

**UN-Number** UN1210  
**Proper Shipping Name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**EmS No.** F-E, S-D  
**Description** UN1210, Printing ink, 3, III, (23°C c.c.), Limited Quantity

**RID**

**UN-Number** UN1210  
**Proper Shipping Name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**Classification Code** F1  
**Description** UN1210, Printing ink, 3, III, Limited Quantity

**ADR**

**UN-Number** UN1210  
**Proper Shipping Name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**Classification Code** F1  
**Tunnel Restriction Code** (D/E)  
**Description** UN1210, Printing ink, 3, III, (D/E), Limited Quantity

**ADN**

**Proper Shipping Name** Printing ink  
**Hazard Class** 3  
**Packing Group** III  
**Classification Code** F1  
**Special Provisions** 163, 640E  
**Description** UN1210, Printing ink, 3, III, Limited Quantity  
**Limited Quantity** 5 L  
**Ventilation** VE01

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

**TSCA** Not determined  
**DSL** Not determined

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylene glycol monopropyl ether	2807-30-9	<5	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

**U.S. State Regulations****California Proposition 65**

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	CAS-No	California Prop. 65
Ethanol	64-17-5	Developmental

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Ethanol	X	X	X		
n-Propyl alcohol	X	X	X		X
Ethylene glycol monopropyl ether			X	X	

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 0	Flammability 2	Instability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazard 0	Flammability 2	Physical Hazard 0	Personal Protection X

Prepared By Product Stewardship  
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**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**