



# SAFETY DATA SHEET

Issuing Date 12-Sept-2019

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

### GHS product identifier

**Product Name** U-Phase® Large Wire Marker

### Other means of identification

**Product Code(s)** **Colors:** #10701MCM Black, #10702MCM Blue, #10703MCM Green, #10704MCM Red, #10705MCM White, #10706MCM Yellow, #10707MCM Orange, #10709MCM Pink, #10712MCM Violet, #10715MCM Brown, #10717MCM Gray

**Packs:** #10718MDS 12 Pack single phase color assort. (3 ea. Blue, Red, White, Green)  
#10718MD3 12 Pack 3-phase color assort. (3 ea. Brown, Yellow, Orange, Gray)

**Synonyms** None

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

**Recommended Use** Solvent based marker

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

### Supplier's details

#### **Supplier Address**

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

### Emergency telephone number

**Chemical Emergency Phone 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

## Emergency Overview

### GHS Label elements, including precautionary statements

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** Alcohol

### **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

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %	Trade secret
Propyl alcohol	71-23-8	30-70	*
Titanium dioxide	13463-67-7	10-20	*
Pigment Yellow 83	5567-15-7	0-10	*
C.I. Pigment red 3	2425-85-6	0-7	*
Carbon black	1333-86-4	0-5	*
C.I. Pigment Blue 15	147-14-8	0-5	*
Ci 51319	6358-30-1	0-3	*
Silicon dioxide	7631-86-9	1-3	*
Silica, amorphous, fumed, crystal-free	112945-52-5	0-2	*
Propylene glycol monomethyl ether acetate	108-65-6	0.1-1.0	*
n-Butyl acetate	123-86-4	0.1-1.0	*
Dipropylene glycol monomethyl ether	34590-94-8	0.1-1.0	*
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorinated	68987-63-3	0.1-1.0	*
Copper	7440-50-8	0.1-1.0	*
n-Butyl alcohol	71-36-3	<0.1	*
Sodium bisulfite	7631-90-5	<0.1	*

## 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**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

#### **Engineering Measures**

None under normal use conditions.

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

#### **Eye/Face Protection**

No protective equipment is needed under normal use conditions.

#### **Skin and Body Protection**

No protective equipment is needed under normal use conditions.

#### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State**

Liquid

**Appearance**

Varies.

**Odor**

Alcohol

**Odor Threshold**

No information available

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propyl alcohol	= 1870 mg/kg ( Rat )	= 4049 mg/kg ( Rabbit )	> 13548 ppm ( Rat ) 4 h
Titanium dioxide	> 10000 mg/kg ( Rat )	-	> 6820 mg/m <sup>3</sup>
Carbon black	-	> 3 g/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>	This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
C.I. Pigment red 3		Group 3		
Carbon black	A3	Group 2B		X
Silicon dioxide		Group 3		
Silica, amorphous, fumed, crystal-free		Group 3		
Sodium bisulfite		Group 3		

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

A3 - Animal Carcinogen

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

Group 2B - Possibly Carcinogenic to Humans

<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:

<b>LD50 Oral</b>	1747 mg/kg; Acute toxicity estimate
<b>LD50 Dermal</b>	3787 mg/kg; Acute toxicity estimate

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Not Applicable

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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
Propyl alcohol	0.34
C.I. Pigment Blue 15	6.6
Propylene glycol monomethyl ether acetate	0.43
n-Butyl acetate	1.81
Dipropylene glycol monomethyl ether	-0.064
n-Butyl alcohol	0.785

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

<b>Waste Disposal Methods</b>	Dispose of in accordance with local regulations.
<b>Contaminated Packaging</b>	Not Applicable

<b>14. TRANSPORT INFORMATION</b>
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**DOT**

<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, III, Limited Quantity
<b>Emergency Response Guide Number</b>	129

**TDG**

<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, III, Limited Quantity

**MEX**

<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, III, Limited Quantity

**ICAO**

<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, III, Limited Quantity

**IATA**

<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, III, Limited Quantity

**IMDG/IMO**

<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, 3, III, (23°C c.c.), Limited Quantity

**RID**

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

**ADR**

<b>UN-Number</b>	UN1210
<b>Proper Shipping Name</b>	Printing ink
<b>Hazard Class</b>	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

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies  
**DSL** Complies

**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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
C.I. Pigment Blue 15		X		
n-Butyl acetate	5000 lb			X
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorinated		X		
Copper		X	X	
Sodium bisulfite	5000 lb			X

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ

n-Butyl acetate	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Copper	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
n-Butyl alcohol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Sodium bisulfite	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

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

The classification listed below only applies to respirable Titanium dioxide and respirable carbon black. This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen
Carbon black	1333-86-4	Carcinogen

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

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION**

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

**Prepared By** U-Mark, Inc  
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**Revision Note** -

**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**