



# SAFETY DATA SHEET

Issuing Date: 09-Feb-2016

Revision Date:

Revision Number: 0

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

### GHS Product Identifier

**Product Name:** M5 Permanent Marker and M15 Permanent Marker

### Other means of identification

**Product Code(s):** M5: #10550 Black, #10551 Red

M15: #11501 Black, #11502 Blue, #11504 Red

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

**Recommended Use:** Solvent based marker

**Uses advised against:** Do not use on skin. Keep away from children.

### Supplier's Details

#### **Supplier's 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 and 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 substances 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

The product contains no substance which at their given concentration are considered to be hazardous to health. Keep out of reach of children.

### **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). See Section 2.

Chemical Name	CAS-No	Weight %	Trade Secret
ethanol	13463-67-7	50-100	*
1-methoxy-2-propanol	107-98-2	2.5-25	*
C.I. Basic red 1 (red only)	989-38-8	2.5-10	*
C.I. solvent orange (red only)	495-54-5	<1	*
Phosphoric acid mono-bis-(2-ethylhexyl) ester (black and blue only)	12345-31-7	2.5-10	*
C.I.Solvent Violet 8 (black only)	84281-86-7	2.5-10	*
C.I. Solvent Orange 3 (black only)	495-54-5	2.5-10	*
C-I. Solvent Blue 4 < 0.1% Michler's Ketone (black and blue only)	112945-52-5	< 2.5	*
C. I. Solvent Blue 51 (blue only)	68411-04-1	2.5-10	*

### 4. FIRST AID MEASURES

#### Description of first-aid measures

<b>Inhalation:</b>	Supply fresh air. Consult a POISON CENTER or doctor/physician in case of complaints.
<b>Eye Contact:</b>	IF IN EYES: Rinse opened eye cautiously with running water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.
<b>Skin Contact:</b>	Generally the product does not irritate the skin. Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Ingestion:</b>	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

#### Most important symptoms/effects acute and delayed

**Most Important Symptoms/Effects:** No further relevant information available..

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

**Notes to Physician:** No further relevant information available.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture:** No further relevant information available.

**Advice for firefighters**

**Protective equipment:** No special measures required.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions:** Remove all sources of ignition. Keep unprotected persons away. Wear protective clothing.

#### 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 (liquid ink only)

**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	78 °C / 172 °F	(Liquid ink only)
Range Flash Point	13 °C / 55 °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
Auto-ignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	
<u>Other information</u>		
VOC Content (%)	No data available	

## 10. STABILITY AND REACTIVITY

### Reactivity :

#### Chemical stability

Thermal decomposition/ conditions to be avoided:  
No decomposition if used according to specifications.

#### Possibility of hazardous reactions

No dangerous reactions known.

#### Conditions to avoid

No further relevant information available.

#### Incompatible materials

No further relevant information available.

#### Hazardous decomposition products:

No dangerous decomposition products known

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects (liquid ink)

#### Acute toxicity

##### LD/LC50 values that are relevant for classification:

- 989-38-8 C.I. Basic Red 1 (Red only)
- Oral LD50 250 mg/kg (rat)
- 84281-86-7 C.I. Solvent Violet 8 (black only)
- Oral LD50 700 mg/kg (rat)

#### Primary irritant effect

##### On the skin:

Irritant to skin and mucous membranes..

##### On the eye:

Strong irritant with the danger of severe eye injury.

##### Sensitization:

No sensitizing effects known.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

#### **Irritant**

#### **Carcinogenic categories**

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

None of the ingredients is listed.

#### **NTP (National Toxicology Program)**

None of the ingredients is listed.

#### **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed

## 12. ECOLOGICAL INFORMATION

### Toxicity (refers to liquid ink)

#### Aquatic toxicity:

- 989-38-8 C.I. Basic Red 1 (red only)
- EC50 / 48h 0.1-0.5 mg/l (Daphnia)
- LC50 / 96h 1-5 mg/l (Fish)

#### **Persistence and Degradability:**

No further relevant information available.

#### **Bioaccumulation:**

No further relevant information available.

#### **Mobility in Soil:**

No further relevant information available.

#### Eco toxic effects:

##### Remark:

Toxic for fish

**Additional ecological information:****General notes (liquid ink):**

Water hazard class 3 (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** Dispose of in accordance with all applicable local, state and federal regulations.

**14. TRANSPORT INFORMATION**

Not regulated

**15. REGULATORY INFORMATION****Safety, Health and environmental regulation/legislation specific for the substance/mixture****Sara**

- **Section 355 (extremely hazardous substances):**  
None of the ingredient is listed.
- **Section 313 (Specific toxic chemical listings):**  
None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65**

- **Chemicals known to cause cancer:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**  
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**  
None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**  
64-17-5 ethanol

**DSL/NDSL (Canada)**

All ingredients are listed

**Carcinogen Categories**

- **EPA (Environmental Protection Agency)**  
None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**  
64-17-5 ethanol
- **MAK (German Maximum Workplace Concentration)**  
64-17-5 ethanol
- **NIOSH-Ca (National Institute for Occupational Safety)**  
None of the ingredients is listed.

**16. OTHER INFORMATION**

**Prepared By:** compliance@umarkers.com

**Issuing date:** 08-Feb-2016

**Revision date:** 08-Feb-2016

**Revision note:** Initial Release

**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**