1. Identification

Product identifier

Product Name  Tekmark Indelible Marking Pen

Other means of identification

Product Code(s)  10900 Black; 10901 Red; 10903 Blue

UN/ID no  UN1210

Synonyms  None

Recommended use of the chemical and restrictions on use

Recommended use  Markers

Restrictions on use  Keep away from children. Not to be used for skin.

Details of the supplier of the safety data sheet

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

Emergency telephone number

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

2. Hazard(s) identification

Classification

Label elements

Hazard statements  
This product is an article as defined by 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. No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemicals.
Other information
May be harmful if inhaled.

3. Composition/information on ingredients

Substance
Not applicable.

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>25-100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether</td>
<td>107-98-2</td>
<td>25-50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-(dimethylamino)propyl]amino]sulfonyl derivatives</td>
<td>68411-04-1</td>
<td>0-10</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

4. First-aid measures

Description of first aid measures

General advice
Under normal conditions of use first aid is not required.

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

Eye contact
If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

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

Ingestion
Not an expected route of exposure.

Most important symptoms and effects, both acute and delayed

Symptoms
None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians
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 known.
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.

 Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Remove all sources of ignition.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

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

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in a well-ventilated place. Keep cool.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>IDLH: 3300 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 1900 mg/m³</td>
<td>TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether 107-98-2</td>
<td>STEL: 100 ppm</td>
<td>(vacated) TWA: 100 ppm</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 50 ppm</td>
<td>(vacated) TWA: 360 mg/m³</td>
<td>TWA: 360 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) STEL: 150 ppm</td>
<td>STEL: 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) STEL: 540 mg/m³</td>
<td>STEL: 540 mg/m³</td>
</tr>
<tr>
<td>Copper, [29H,31H-phthalocyaninato(2-)]-N29,N30,N31,N32]2+,</td>
<td>TWA: 1 mg/m³ Cu dust and mist</td>
<td>-</td>
<td>IDLH: 100 mg/m³ Cu dust and mist</td>
</tr>
<tr>
<td></td>
<td>TWA: 1 mg/m³ Cu dust and mist</td>
<td>TWA: 1 mg/m³ Cu dust and mist</td>
<td></td>
</tr>
</tbody>
</table>
### [[3-(dimethylamino)propyl]amino][3-sulfonyl derivatives]

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>TWA: 1000 ppm</td>
<td>STEL: 1000 ppm</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 1880 mg/m³</td>
<td></td>
<td>TWA: 1880 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether 107-98-2</td>
<td>TWA: 100 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 369 mg/m³</td>
<td>STEL: 150 ppm</td>
<td>STEL: 100 ppm</td>
<td>TWA: 369 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL: 553 mg/m³</td>
<td></td>
<td>STEL: 100 ppm</td>
<td>STEL: 553 mg/m³</td>
</tr>
</tbody>
</table>

#### Other information
Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

#### Appropriate engineering controls

**Engineering controls**
- Showers
- Eyewash stations
- Ventilation systems.

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

**Eye/face protection**
No protective equipment is needed under normal use conditions.

**Hand protection**
No special protective equipment required.

**Skin and body protection**
No protective equipment is needed under normal use conditions.

**Respiratory protection**
No protective equipment is needed under normal use conditions.

**General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance**
- **Physical state**: Liquid
- **Color**: Red, Blue, Black
- **Odor**: Alcohol-like
- **Odor threshold**: No information available

**Property** | **Values** | **Remarks** | **Method**
--- | --- | --- | ---
**pH** | No data available | None known | 
**Melting point / freezing point** | No data available | None known |  
**Boiling point / boiling range** | 78 °C / 172.4 °F | (Liquid Ink) |  
**Flash point** | 13 °C / 55.4 °F | (Liquid Ink) |  
**Evaporation rate** | No data available | None known |  
**Flammability (solid, gas)** | No data available | None known |  
**Flammability Limit in Air**
- **Upper flammability or explosive limits**: No data available
- **Lower flammability or explosive limits**: No data available

**Vapor pressure** | No data available | None known |  
**Vapor density** | No data available | None known |  
**Relative density** | No data available | None known |  
**Water solubility** | Miscible in water | None known |  

---

(M)SDS Number: WPS-UMARK-011
### 10. Stability and reactivity

**Reactivity**
None under normal use conditions.

**Chemical stability**
Stable under normal conditions.

**Possibility of hazardous reactions**
None under normal processing.

**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**

- **Inhalation**
  No known effect based on information supplied.

- **Eye contact**
  No known effect based on information supplied.

- **Skin contact**
  No known effect based on information supplied.

- **Ingestion**
  No known effect based on information supplied.

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

**Symptoms**
None known.

**Acute toxicity**

**Numerical measures of toxicity**
No information available

**Component Information**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>= 7060 mg/kg (Rat)</td>
<td></td>
<td>= 124.7 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether</td>
<td>= 5000 mg/kg (Rat)</td>
<td>= 13 g/kg (Rabbit)</td>
<td>&gt; 7559 ppm (Rat) 6 h</td>
</tr>
</tbody>
</table>
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation  
No information available.

Serious eye damage/eye irritation  
No information available.

Respiratory or skin sensitization  
No information available.

Germ cell mutagenicity  
No information available.

Carcinogenicity  
The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)  
A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)  
Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)  
Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
X - Present

Reproductive toxicity  
No information available.

STOT - single exposure  
No information available.

STOT - repeated exposure  
No information available.

Aspiration hazard  
No information available.

12. Ecological information

Ecotoxicity  
Not classified.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>-</td>
<td>LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: &gt;100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)</td>
<td>-</td>
<td>LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna) EC50: =10800mg/L (24h, Daphnia magna)</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether 107-98-2</td>
<td>-</td>
<td>LC50: 4600 - 10000mg/L (96h, Leuciscus idus) LC50: =20.8g/L (96h, Pimephales promelas)</td>
<td>-</td>
<td>EC50: =23300mg/L (48h, Daphnia magna)</td>
</tr>
</tbody>
</table>

Persistence and degradability  
No information available.

Bioaccumulation  
There is no data for this product.

Component Information
### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

#### California Hazardous Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>Toxic Ignitable</td>
</tr>
<tr>
<td>Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-(dimethylamino)propyl]amino]sulfonyl derivitives 68411-04-1</td>
<td>Toxic</td>
</tr>
</tbody>
</table>

### 14. Transport information

**DOT**

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
<th>Packing group</th>
<th>Special Provisions</th>
<th>Description</th>
<th>Emergency Response Guide Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1210</td>
<td>PRINTING INK</td>
<td>3</td>
<td>II</td>
<td>149, IB2, T4, TP1, TP8, 367</td>
<td>UN1210, PRINTING INK, 3, II, Limited Quantity</td>
<td></td>
</tr>
</tbody>
</table>

**TDG**

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
<th>Packing group</th>
<th>Description</th>
<th>Special Provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1210</td>
<td>PRINTING INK</td>
<td>3</td>
<td>II</td>
<td>UN1210, PRINTING INK, 3, II, Limited Quantity</td>
<td>163</td>
</tr>
</tbody>
</table>

**MEX**

<table>
<thead>
<tr>
<th>UN/ID no</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
<th>Special Provisions</th>
<th>Packing group</th>
<th>Description</th>
<th>Special Provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1210</td>
<td>PRINTING INK</td>
<td>3</td>
<td>163</td>
<td>II</td>
<td>UN1210, PRINTING INK, 3, II, Limited Quantity</td>
<td></td>
</tr>
</tbody>
</table>
IATA

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1210</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Printing ink</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>ERG Code</td>
<td>3L</td>
</tr>
<tr>
<td>Description</td>
<td>UN1210, Printing ink, 3, II</td>
</tr>
</tbody>
</table>

IMDG

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1210</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>PRINTING INK</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>EmS-No</td>
<td>F-E, S-D</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>163, 367</td>
</tr>
<tr>
<td>Description</td>
<td>UN1210, PRINTING INK, 3, II, (13°C C.C.), Limited Quantity</td>
</tr>
</tbody>
</table>

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer  Not applicable

The Stockholm Convention on Persistent Organic Pollutants  Not applicable

The Rotterdam Convention  Not applicable

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
<tr>
<td>ENCS</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
<tr>
<td>IECSC</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
<tr>
<td>KECL</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
<tr>
<td>PICCS</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
<tr>
<td>AICS</td>
<td>Contact supplier for inventory compliance status.</td>
</tr>
</tbody>
</table>

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-(dimethylamino)propyl]amino]sulfonyl derivitives - 68411-04-1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

**CWA (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).

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>[[3-(dimethylamino)propyl]amino]sulfonyl derivitives 68411-04-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

**US State Regulations**

**California Proposition 65**
This product contains the following Proposition 65 chemicals: Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol - 64-17-5</td>
<td>Carcinogen</td>
</tr>
<tr>
<td></td>
<td>Developmental</td>
</tr>
</tbody>
</table>

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

**US State Regulations**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether 107-98-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. Other information**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>3</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

(M)SDS Number WPS-UMARK-011
Key or legend to abbreviations and acronyms used in the safety data sheet

Legend  Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA  TWA (time-weighted average)  STEL  STEL (Short Term Exposure Limit)
Ceiling  Maximum limit value  X  Skin designation

Key literature references and sources for data used to compile the SDS
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Issuing Date  11-Apr-2018
Revision Date  13-Jun-2019
Revision Note  SDS sections updated: 3. 8. 15.

Disclaimer
The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet