



# SAFETY DATA SHEET

Issuing Date 02-Apr-2018

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Revision Number 1

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 Name** 100 CHP Certified High Purity Paint Marker

### Other means of identification

**Product Code(s)** 10205CHP 100CHP White

**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** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

### Classification

This product is not considered hazardous according to the criteria set within 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.

### Label Elements

**Signal Word**  
None

**Hazard Statements**  
None

**Physical and Health Hazards Not Otherwise Classified**  
Not applicable.

**Precautionary Statements****Other information**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Titanium dioxide	13463-67-7	20-25	-	-
Propylene glycol monomethyl ether	107-98-2	15-20	-	-
tert-Butyl acetate	540-88-5	15-20	-	-
Ethanol	64-17-5	10-15	-	-
Isopropyl alcohol	67-63-0	1-5	-	-

**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. Get medical attention if irritation persists.

**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** Not an expected route of exposure.

**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** 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**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Propylene glycol monomethyl ether 107-98-2	STEL: 100 ppm TWA: 50 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 150 ppm STEL: 540 mg/m <sup>3</sup>
tert-Butyl acetate 540-88-5	STEL: 150 ppm TWA: 50 ppm	TWA: 200 ppm TWA: 950 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 950 mg/m <sup>3</sup>	IDLH: 1500 ppm TWA: 200 ppm TWA: 950 mg/m <sup>3</sup>
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>
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 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**

**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

<b>Physical State</b>	Liquid.	<b>Appearance</b>	White.
<b>Odor</b>	Mild.	<b>Odor Threshold</b>	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	78 °C / 172.4 °F	None known
Flash Point	3 °C / 37 °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	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	3.1 (air = 1)	None known
Relative Density	No data available	None known
Specific Gravity	1.137	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

### Other information

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

**Actual VOC (lb/gal)** 3.06

## 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

**Product Information**

<b>Inhalation</b>	No known effect based on information supplied.
<b>Eye Contact</b>	No known effect based on information supplied
<b>Skin Contact</b>	No known effect based on information supplied
<b>Ingestion</b>	No known effect based on information supplied

**Numerical measures of toxicity - Product****Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 mg/kg ( Rat )	-	> 6820 mg/m <sup>3</sup>
Propylene glycol monomethyl ether	= 5000 mg/kg ( Rat )	= 13 g/kg ( Rabbit )	> 7559 ppm ( Rat ) 6 h
tert-Butyl acetate	= 4100 mg/kg ( Rat )	> 2 g/kg ( Rabbit ) > 2000 mg/kg ( Rabbit )	> 9482 mg/m <sup>3</sup> ( Rat ) 4 h > 2230 mg/m <sup>3</sup> ( Rat ) 4 h
Ethanol	= 7060 mg/kg ( Rat )	-	= 124.7 mg/L ( Rat ) 4 h
Isopropyl alcohol	= 1870 mg/kg ( Rat )	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h

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

**Symptoms** No information available.

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

**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 and abused as an alcoholic beverage. 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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
Ethanol	A3	Group 1	Known	X
Isopropyl alcohol		Group 3		X

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

A3 - Animal Carcinogen

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

Group 1 - Carcinogenic to Humans  
 Group 2B - Possibly Carcinogenic to Humans  
 Group 3 - Not Classifiable as to its Carcinogenicity to Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen

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

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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Propylene glycol monomethyl ether 107-98-2		LC50 96 h: 4600 - 10000 mg/L static (Leuciscus idus) LC50 96 h: = 20.8 g/L static (Pimephales promelas)		EC50 48 h: = 23300 mg/L (Daphnia magna)
tert-Butyl acetate 540-88-5		LC50 96 h: 296 - 362 mg/L flow-through (Pimephales promelas)	EC50 = 11.1 mg/L 30 min EC50 = 6.38 mg/L 5 min EC50 = 8.04 mg/L 15 min	
Ethanol 64-17-5		LC50 96 h: 12.0 - 16.0 mL/L static (Oncorhynchus mykiss) LC50 96 h: 13400 - 15100 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (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)
Isopropyl alcohol 67-63-0	EC50 72 h: > 1000 mg/L (Desmodesmus subspicatus) EC50 96 h: > 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 11130 mg/L static (Pimephales promelas) LC50 96 h: = 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1400000 µg/L (Lepomis macrochirus)		EC50 48 h: = 13299 mg/L (Daphnia magna)

**Persistence and Degradability** No information available

**Bioaccumulation** No information available

Chemical Name	Log Pow
Propylene glycol monomethyl ether	-0.437
tert-Butyl acetate	1.38
Ethanol	-0.32
Isopropyl alcohol	0.05

**Mobility** No information available

**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**

<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
<b>Packing Group</b>	III
<b>Classification Code</b>	F1
<b>Tunnel Restriction Code</b>	(D/E)
<b>Description</b>	UN1210, Printing ink, 3, III, (D/E), Limited Quantity

**ADN**

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

## 15. REGULATORY INFORMATION

### International Regulations

Ozone depleting substances Not applicable  
 Persistent Organic Pollutants Not applicable  
 Hazardous Waste Not applicable

Chemical Name	Basel Convention (Hazardous Wastes)
Ethanol	Y42
Isopropyl alcohol	Y42

The Rotterdam Convention (Prior Informed Consent) Not applicable  
 International Convention for the Prevention of Pollution from Ships (MARPOL) Not applicable

### International Inventories

TSCA Contact supplier for inventory compliance status  
 DSL/NDSL Contact supplier for inventory compliance status

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - 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 %
Isopropyl alcohol	67-63-0	1-5	1.0

### 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.

### 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):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
tert-Butyl acetate				X

### 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):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
tert-Butyl acetate	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

### U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals: Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage. The classification listed below only applies to respirable Titanium dioxide.

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen
Ethanol	64-17-5	Developmental
Methyl isobutyl ketone	108-10-1	Carcinogen Developmental



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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Titanium dioxide	X	X	X	-	X
Propylene glycol monomethyl ether	X	X	X	X	X
tert-Butyl acetate	X	X	X		X
Ethanol	X	X	X	X	
Isopropyl alcohol	X	X	X		X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

**NFPA**                      Health Hazard 0                      Flammability 2                      Instability 0                      Physical and Chemical Hazards -

**HMIS**                      Health Hazard 0                      Flammability 2                      Physical Hazard 0                      Personal Protection X

**Prepared By**                      Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

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**Revision Note**                      Transportation information.

**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**