# SAFETY DATA SHEET

Revision Date 28-May-2015

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

GHS product identifier	
Product Name	Window Markers, various colors
Other means of identification	
Forney SKUs	70853, 70854, 70855, 70856, 70857, 70858, 70859

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.
<u>Supplier's details</u> Supplier Address	Forney Industries, Inc. 2057 Vermont Dr. Fort Collins, CO 80525
Emergency phone number Emergency Phone Number	Phone: 1-800-521-6038 Email: customerservice@forneyind.com Emergency Response Phone: 1-800-535-5053 International Emergency Response Phone: 352-323-3500

# 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 CRF 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).

# 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 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**

Chemical Name	CAS-No	Weight %	Trade secret
Propanol	71-23-8	55-60	*
Diacetone alcohol	123-42-2	15-20	*
Titanium dioxide	13463-67-7	0-5	*
Cobalt	7440-48-4	0-5	*

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

# 4. FIRST AID MEASURES

#### Description of necessary first-aid measures

General AdviceUnder normal conditions of use first aid is not required.Eye ContactIF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if<br/>present and easy to do. Continue rinsing. Call a physician or Poison Control Center<br/>immediately.Skin ContactWash skin with soap and water. Get medical attention if irritation develops and persists.InhalationIf experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.IngestionIF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwellMost 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 containr	nent 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
Propanol 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>
Diacetone alcohol 123-42-2	TWA: 50 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 240 mg/m <sup>3</sup>	IDLH: 1800 ppm TWA: 50 ppm TWA: 240 mg/m³
Cobalt 7440-48-4	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> dust and fume (vacated) TWA: 0.05 mg/m <sup>3</sup> dust and fume	IDLH: 20 mg/m <sup>3</sup> dust and fume TWA: 0.05 mg/m <sup>3</sup> dust and fume
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³

Ci 77400	TWA: 0.2 mg/m <sup>3</sup> fume	TWA: 0.1 mg/m <sup>3</sup> fume	IDLH: 100 mg/m <sup>3</sup> dust, fume and
7440-50-8		TWA: 1 mg/m <sup>3</sup> dust and mist	mist
		(vacated) TWA: 0.1 mg/m <sup>3</sup> Cu	TWA: 1 mg/m <sup>3</sup> dust and mist
		dust, fume, mist	TWA: 0.1 mg/m <sup>3</sup> fume

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 Skin and Body Protection Respiratory Protection	No protective equipment is needed under normal use conditions. No protective equipment is needed under normal use conditions. 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 Odor	Liquid. Alcohol.	Appearance Odor Threshold	Varies. No information available.
<u>Property</u> pH Melting Point/Range Boiling Point/Boiling Range	<u>Values</u> No data available No data available 96 °C / 205 °F	<u>Remarks/ - N</u> None known None known None known	lethod
Flash Point Evaporation rate	23 °C / 73 °F No data available	(Liquid Ink onl None known	у)
Flammability (solid, gas) Flammability Limits in Air upper flammability limit	No data available 13.5% 2.1%	None known	
lower flammability limit Vapor Pressure Vapor Density Specific Gravity	No data available No data available .9418	None known None known None known	
Water Solubility Solubility in other solvents Partition coefficient: n-octan	No data available No data available	None known None known None known	
Autoignition Temperature Decomposition Temperature	No data available No data available	None known None known	
Viscosity Flammable Properties	No data available Highly flammable.	None known	
Explosive Properties Oxidizing Properties	No data available 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

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

# **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propanol	= 1870 mg/kg (Rat)	= 4049 mg/kg (Rabbit)	> 13548 ppm (Rat)4 h
Diacetone alcohol	= 4 g/kg (Rat)	= 13500 mg/kg (Rabbit)	-
Titanium dioxide	> 10000 mg/kg (Rat)	-	> 6820 mg/m <sup>3</sup>
Cobalt	= 6170 mg/kg (Rat)	-	> 10 mg/L (Rat)1 h

# 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

Sensitization Mutagenic Effects Carcinogenicity No information available. No information available. 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		Х
Cobalt	A3	Group 2B	Reasonably Anticipated	Х

#### 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 Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

#### Reproductive Toxicity STOT - single exposure STOT - repeated exposure Aspiration Hazard

No information available. No information available. No information available. 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)
Propanol 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)
Diacetone alcohol 123-42-2		LC50 96 h: = 420 mg/L static (Lepomis macrochirus) LC50 96 h: = 420 mg/L (Lepomis macrochirus)		EC50 24 h: = 8750 mg/L (Daphnia magna)
Cobalt 7440-48-4	-	LC50 96 h: > 100 mg/L static (Brachydanio rerio)	-	-

# Persistence and Degradability

No information available.

# Bioaccumulation

No information available.

Chemical Name	Log Pow		
Propanol	0.34		
Diacetone alcohol	1.03		
Other Adverse Effects			

#### Other Adverse Effects

No information available.

# **13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

Waste Disposal Methods

**Contaminated Packaging** 

Not Applicable

# **14. TRANSPORT INFORMATION**

UN1210
Printing ink
3
III
UN1210, Printing ink, 3, III, Limited Quantity
129
UN1210
Printing ink
3
III
UN1210, Printing ink, 3, III, Limited Quantity
UN1210
Printing ink

Packing Group Description	III UN1210, Printing ink, 3, III, Limited Quantity
Description	UN1210, 1 finding link, 3, in, Linined Quantity
UN-Number Proper shipping name	UN1210 Printing ink
Hazard Class	3
Packing Group	III
Description	UN1210, Printing ink, 3, III, Limited Quantity
ΙΑΤΑ	
UN-Number	UN1210
Proper Shipping Name	Printing ink
Hazard Class Packing Group	3 
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 EmS No.	III 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 Packing Group	3 
Classification Code	III F1
Description	UN1210, Printing ink, 3, III, Limited Quantity
ADR	
UN-Number	UN1210
Proper Shipping Name	Printing ink
Hazard Class	3
Packing Group Classification Code	III 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 F1
Classification Code Special Provisions	163, 640E
Description	UN1210, Printing ink, 3, III, Limited Quantity
Limited Quantity	5 L
Ventilation	VE01
	15. REGULATORY INFORMATION

# **15. REGULATORY INFORMATION**

International	Inventories
TSCA	
DSL	

Complies Complies

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 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.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Cobalt	7440-48-4	0-5	0.1

### 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

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

Chemical Name	CAS-No	California Prop. 65
Cobalt	7440-48-4	Carcinogen
Titanium dioxide	13463-67-7	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Propanol	Х	Х	Х		Х
Diacetone alcohol	Х	Х	Х		Х
Titanium dioxide	Х	Х	Х	-	Х
Cobalt	Х	X	Х	Х	Х

# 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 -
<u>HMIS</u>	Health Hazard 0	Flammability 2	Physical Hazard 0	Personal Protection X

Revision Date Revision Note 28-May-2015 No information available.

# 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.