### 1. PRODUCT AND COMPANY IDENTIFICATION

Product code IN-ADE369
Product name Green

Product category ADE Series Epoxy Screen Ink

Supplier's detailsEmergency Telephone NumberUNITED STATESUSA: 1-800-969-6699

UNITED STATES
Hitt Marking Devices
3231 W. MacArthur Blvd.
Santa Ana, CA 92704
Tel: 1-714-979-1405

 Santa Ana, CA 92704
 Website: www.HittMarking.com

 Tel: 1-714-979-1405
 MSDS Information: 1-714-979-14052

 Tel: 1-800-969-6699
 MSDS Contact: Customer Service

 Fax: 1-714-979-1407
 email: Sales@HittMarking.com

### 2. HAZARDS IDENTIFICATION

This product is a preparation. Health hazard information is based on its components.

Appearance Colored liquid

Flammable Properties Combustible liquid and vapor.

**Emergency Overview** Irritant. May cause drowsiness and dizziness.

**Eyes** May cause eye irritation.

**Skin** May cause skin irritation and/or dermatitis.

Inhalation May cause irritation of respiratory tract. Inhalation of high vapour concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Dipropylene Glycol Monomethyl Ether	34590-94-8	10 - 30
Diacetone alcohol	123-42-2	5 - 10
Copper Phthalocyanine Compound	Trade Secret	5 - 10
Propylene glycol monomethyl ether	107-98-2	5 - 10
2-Butoxyethanol	111-76-2	1 - 5

#### 4. FIRST AID MEASURES

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Get medical attention immediately if irritation

develops and persists.

Skin Contact Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse

immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If

irritation develops, get medical attention.

**Inhalation** If breathed in, move person into fresh air. If breathing is irregular or stopped, administer

artificial respiration. Get medical attention immediately.

Ingestion If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre

immediately. Never give anything by mouth to an unconscious person.

### 5. FIRE-FIGHTING MEASURES

Flammable Properties Combustible liquid and vapor.

Suitable Extinguishing Media Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures

that are appropriate to local circumstances and the surrounding environment.

**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. Keep away from fire, sparks and heated surfaces. Cool containers / tanks with water spray. Fire or intense heat may cause violent

rupture of packages.

Specific Hazards Arising from the

Chemical

Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.

### 6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid **Personal Precautions** 

contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Methods for Cleaning Up** Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13). Do not use sparking tools.

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If **Environmental Precautions** 

the product contaminates rivers and lakes or drains inform respective authorities.

# 7. HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and Handling

wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Do not take internally. Harmful or fatal if swallowed. Take notice of the

directions of use on the label.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container **Storage** 

closed when not in use. Keep out of the reach of children. Keep away from heat and

sources of ignition.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Ontario TWAEV	Mexico OEL (TWA)
Dipropylene Glycol Monomethyl Ether	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 100 ppm TWA: 600 mg/m³ STEL: 150 ppm STEL: 900 mg/m³ Skin	600 ppm	TWA: 100 ppm STEL: 150 ppm Skin	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 60 mg/m³ STEL/LMPE-CT: 150 ppm STEL/LMPE-CT: 900 mg/m³
Diacetone alcohol	TWA: 50 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>	1800 ppm (10% LEL)	TWA: 50 ppm TWA: 240 mg/m³ STEL: 75 ppm STEL: 360 mg/m³	TWA/LMPE-PPT: 50 ppm TWA/LMPE-PPT: 240 mg/m³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 360 mg/m³
Propylene glycol monomethyl ether	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 150 ppm STEL: 540 mg/m <sup>3</sup>		TWA: 100 ppm STEL: 150 ppm	

2-Butoxyethanol	TWA: 20 ppm	TWA: 25 ppm TWA: 120 mg/m³ TWA: 50 ppm TWA: 240 mg/m³ Skin	700 ppm	TWA: 20 ppm	TWA/LMPE-PPT: 26 ppm TWA/LMPE-PPT: 120 mg/m³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 360
					mg/m³

Use ventilation adequate to keep exposures below recommended exposure limits. See **Engineering Measures** MSDS. In case of insufficient ventilation, wear suitable respiratory equipment.

**Personal Protective Equipment** 

**Respiratory Protection** Use the indicated respiratory protection if the occupational exposure limit is exceeded

and/or in case of product release (dust). Respirator with a vapour filter. **Eye Protection** 

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

Wear protective gloves/clothing. Solvent-resistant apron and boots. **Skin Protection** 

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before

eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

Regular cleaning of equipment, work area and clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Colored liquid **Appearance Physical State** Liquid

Odor Characteristic **Odor Threshold** No information available No information available **Autoignition Temperature** No information available pН

>149 °C / >300 °F No information available **Boiling point/Boiling Range** Melting Point/Range Freezing Point/Range No information available Solubility No information available No information available No information available **Evaporation Rate Partition Coefficient** 

(n-octanol/water)

No information available

No information available Heavier than air Vapour Pressure **Vapour Density** 

Flammability (solid, gas) Flammability Limits in Air

> **Upper** No information available Lower No information available

Flash Point 52 °C / 125 °F **Photochemically Reactive** Nο Method Setaflash closed cup

Weight Per Gallon (lbs/gal) 9.25 **Specific Gravity** 1.11 VOC by weight % (less water) 36.35 VOC by volume % (less water) 37.67 VOC lbs/gal (less water) 3.37 VOC grams/liter (less water) 403.22

# 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.

**Conditions to Avoid** Heat, flames and sparks.

**Incompatible Products** Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide

(CO2). Carbon monoxide.

Possibility of Hazardous Reactions None under normal processing.

# 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dipropylene Glycol Monomethyl Ether	5230 mg/kg ( Rat )	9500 mg/kg(Rabbit)	
Diacetone alcohol	4 g/kg (Rat)	13500 mg/kg (Rabbit)	
Copper Phthalocyanine Compound	3000 mg/kg (Rat)		
Propylene glycol monomethyl ether	5200 mg/kg ( Rat )	13000 mg/kg(Rabbit)	54.6 mg/L (Rat)4 h >24 mg/L (Rat)1 h
2-Butoxyethanol	470 mg/kg (Rat)	2270 mg/kg (Rat) 220 mg/kg (Rabbit)	2.21 mg/L (Rat)4 h 450 ppm (Rat)4 h

### **Chronic Toxicity**

Component	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3			

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

SensitisationNo information availableMutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental hazardNo information availableTeratogenicityNo information available

Chronic Effects Exposure to component solvent vapour concentrations in excess of the stated occupational

exposure limit may result in adverse health effect, such as mucous membrane and

respiratory system irritation and adverse effect on kidney, liver and central nervous system. Blood, Central nervous system, Eyes, Hematopoietic System, Kidney, Liver, Respiratory

system, Skin.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Target Organ Effects** 

We have no quantitative data concerning the ecological effects of this product. Should not be released into the environment.

Component	Algae	Fish	Water Flea
Dipropylene Glycol Monomethyl Ether		96h LC50 Pimephales promelas: >10000 mg/L [static]	48h LC50 Daphnia magna: 1919 mg/L
Diacetone alcohol		96h LC50 Lepomis macrochirus: 420 mg/L 96h LC50 Lepomis macrochirus: 420 mg/L [static]	24h EC50 Daphnia magna: 8750 mg/L
Copper Phthalocyanine Compound		96h LC50 Lepomis macrochirus: 752.4 mg/L [static]	24h EC50 Daphnia magna Straus: >500 mg/L
Propylene glycol monomethyl ether		96h LC50 Leuciscus idus: 4600 - 10000 mg/L [static] 96h LC50 Pimephales promelas: 20.8 g/L [static]	48h EC50 Daphnia magna: 23300 mg/L
2-Butoxyethanol		96h LC50 Lepomis macrochirus: 1490 mg/L [static] 96h LC50 Lepomis macrochirus: 2950 mg/L	24h EC50 Daphnia magna: 1698 - 1940 mg/L 48h EC50 Daphnia magna: >1000 mg/L

Persistence and Degradability
Bioaccumulation
Mobility in Environmental Media
No information available
No information available
No information available

Component	log Pow
Dipropylene Glycol Monomethyl Ether	-0.064
Diacetone alcohol	1.03

Product code IN-ADE369 - Green

Propylene glycol monomethyl ether	-0.437
2-Butoxyethanol	0.81

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of contents/container in accordance with local regulation.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. TRANSPORT INFORMATION

#### DOT

UN1210, Printing Ink, 3, III

In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

### ICAO/IATA

UN1210, Printing Ink, 3, III

#### IMDG/IMO

UN1210, Printing Ink, 3, III

# 15. REGULATORY INFORMATION

### **International Inventories**

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

### **U.S. Federal Regulations**

### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
2-Butoxyethanol	111-76-2	1 - 5	1.0

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

### **U.S. State Regulations**

Component	Massachusetts Right To Know	Minnesota Right To Know	New Jersey Right To Know	Pennsylvania Right To Know
Dipropylene Glycol Monomethyl Ether	X	X	X	X
Diacetone alcohol	X	X	X	X
Copper Phthalocyanine Compound	Not Listed	Not Listed	X	X
Propylene glycol monomethyl ether	X	X	X	X
2-Butoxyethanol	X	X	X	Х

### Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

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Component	WHMIS Classifications of Components
Dipropylene Glycol Monomethyl Ether	B3
Diacetone alcohol	B3,D2B
Propylene glycol monomethyl ether	B2
2-Butoxyethanol	B3,D1A,D2B

Component	NPRI - National Pollutant Release Inventory
Dipropylene Glycol Monomethyl Ether	Part 4 Substance
Diacetone alcohol	Part 4 Substance
Copper Phthalocyanine Compound	Part 1, Group 1 Substance
Propylene glycol monomethyl ether	Part 4 Substance
2-Butoxyethanol	Part 4 Substance
	Part 1, Group 1 Substance
	Part 5, Individual Substance

Regulation (EC) No. 1907/2006 (REACH), Article 57

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57)

HMIS: Health Flammability Reactivity PPE 1 \* 2 0 X

# 16. OTHER INFORMATION

Revision Date Oct-17-2012

Revision Note New MSDS format

#### **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 MSDS**