

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product code</b>	<b>CI-UVLED-M1000</b>
<b>Product name</b>	<b>Magenta</b>
<b>Product category</b>	Magenta ink for UV LED Printer-1000ml
<b>Pigmentinc Pty/Ltd</b>	<b>Emergency Telephone Number</b>
2/1 Skyline Place,	USA: Chemtrec: 1-800-424-9300
Frenchs Forest NSW 2086	Outside USA: Chemtrec: 1-703-527-3887
Sydney Australia	Website: www.chemtrec.com
Ph:+61-2-89772500	MSDS Information: 1-913-422-1888 ext 2305
Fax:+61-2-94532403	MSDS Contact: Regulatory Compliance

## 2. HAZARDS IDENTIFICATION

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

<b>Appearance</b>	Colored liquid
<b>Emergency Overview</b>	Irritant. Sensitizer.
<b>Eyes</b>	Moderately irritating to the eyes. The liquid splashed in the eyes may cause irritation and reversible damage.
<b>Skin</b>	Moderate skin irritation. Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be harmful if absorbed through skin.
<b>Inhalation</b>	May cause irritation of respiratory tract. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Vinyl Functional Monomer	Trade Secret	30 - 60
Acrylated Monomer	Trade Secret	10 - 30
Acrylated Monomer	Trade Secret	5 - 10
Glycol ether acrylate	Trade Secret	5 - 10
Photoinitiator	Trade Secret	1 - 5
Photoinitiator	Trade Secret	1 - 5
Photoinitiator	Trade Secret	1 - 5

## 4. FIRST AID MEASURES

<b>Eye Contact</b>	May produce an allergic reaction. 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.
<b>Skin Contact</b>	May cause allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. 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 and shoes.

<b>Inhalation</b>	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	May produce an allergic reaction. 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

<b>Flammable Properties</b>	No information available
<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Protective Equipment and Precautions for Firefighters</b>	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. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers. To avoid thermal decomposition, do not overheat. Fire or intense heat may cause violent rupture of packages.
<b>Specific Hazards Arising from the Chemical</b>	May cause sensitization by skin contact. Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Methods for Cleaning Up</b>	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.
<b>Environmental Precautions</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of the directions of use on the label. Do not take internally. Harmful or fatal if swallowed.
<b>Storage</b>	Keep at temperatures between 9.9°C and 31.9°C. Keep container closed when not in use. Keep out of the reach of children. Keep away from direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<b>Engineering Measures</b>	Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Personal Protective Equipment</b>	

<b>Respiratory Protection</b>	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.
<b>Eye Protection</b>	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.
<b>Skin Protection</b>	Wear protective gloves/clothing. Solvent-resistant apron and boots.

<b>General Hygiene Considerations</b>	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. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colored liquid	<b>Physical State</b>	Liquid
<b>Odor</b>	Mild Sweet Acrylic	<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available	<b>Autoignition Temperature</b>	No information available
<b>Boiling point/Boiling Range</b>	>149 °C / >300 °F	<b>Melting Point/Range</b>	No information available
<b>Freezing Point/Range</b>	No information available	<b>Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Vapour Pressure</b>	No information available	<b>Vapour Density</b>	Heavier than air
<b>Flammability (solid, gas)</b>	No information available	<b>Flammability Limits in Air</b>	
		<b>Upper</b>	No information available
		<b>Lower</b>	No information available
<b>Flash Point</b>	> 93 °C / > 200 °F	<b>Photochemically Reactive</b>	No
<b>Method</b>	Pensky Martens Closed Cup (PMCC)		
<b>Weight Per Gallon (lbs/gal)</b>	8.83	<b>Specific Gravity</b>	1.06
<b>VOC by weight %</b>	0-1	<b>VOC by volume %</b>	0-1
<b>VOC lbs/gal (less water)</b>	0-1	<b>VOC grams/liter (less water)</b>	0.03

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Temperatures above 93°C. Keep away from direct sunlight.
<b>Incompatible Products</b>	Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide.
<b>Possibility of Hazardous Reactions</b>	None under normal processing. Do not store for longer periods at temperatures above 93°C.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acrylated Monomer	3540 µL/kg ( Rat )	450 µL/kg ( Rabbit )	
Glycol ether acrylate	4660 µL/kg ( Rat )	2540 µL/kg ( Rabbit )	

### Chronic Toxicity

No information available

<b>Sensitisation</b>	May cause sensitization of susceptible persons.
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>Developmental hazard</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Chronic Effects</b>	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
<b>Target Organ Effects</b>	No information available

**12. ECOLOGICAL INFORMATION**

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

<b>Persistence and Degradability</b>	No information available
<b>Bioaccumulation</b>	No information available
<b>Mobility in Environmental Media</b>	No information available

**13. DISPOSAL CONSIDERATIONS**

<b>Waste Disposal Methods</b>	Dispose of contents/container in accordance with local regulation.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION**

**DOT**  
 Printing Ink, Not Regulated

**ICAO/IATA**  
 Not classified as dangerous in the meaning of transport regulations

**IMDG/IMO**  
 Not classified as dangerous in the meaning of transport regulations

**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
Glycol ether acrylate	Trade Secret	5 - 10	1.0

*The above glycol ether acrylate is considered a reactive chemical in ultraviolet curable inks. Once initiated by a high dose of ultraviolet light, this glycol ether acrylate rapidly polymerizes (i.e. hardens) and becomes part of the ink film. The polymerization process of UV curable inks is measured in milliseconds.*

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

Component	CAS-No	Weight %
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Glycol ether acrylate	Trade Secret	5 - 10
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**U.S. State Regulations**

Component	Massachusetts Right To Know	Minnesota Right To Know	New Jersey Right To Know	Pennsylvania Right To Know
Glycol ether acrylate	Not Listed	Not Listed	X	X

**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

**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)

<b>HMIS:</b>	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>PPE</b>
	2	1	1	X

**16. OTHER INFORMATION**

Revision Date Sep-12-2012

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**