

# SAFETY DATA SHEET

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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Eco Solvent Ultra Light Cyan  
VJ-MSINK3-LC220 / VJ-MSINK3-LC440

### Manufacturer or supplier's details

Company : MUTOH AUSTRALIA PTY. LTD.  
Address : Unit 19/76 Reserve Road, Artarmon, NSW 2064, Australia  
Contact section : admin@mutoh-au.com or +61 2 9437 1366  
Telephone : +61 2 94371366  
Emergency telephone number : Emergency phone number (business hours): +61 2 9437 1366

### Recommended use of the chemical and restrictions on use

Recommended use : Digital Printing

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable liquids : Category 4  
Skin corrosion/irritation : Category 2  
Reproductive toxicity : Category 1B

### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : Combustible liquid.  
Causes skin irritation.  
May damage fertility or the unborn child

Precautionary statements : **Prevention:**  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF exposed or concerned: Get medical advice/ attention.  
IF ON SKIN: Wash with plenty of soap and water.  
**Storage:**  
Store in a well-ventilated place. Keep cool.  
**Disposal:**  
Dispose of contents/ container in accordance with related laws and local/ regional regulations.

### Other hazards which do not result in classification

Ink contact with skin may cause irritation, swelling or redness.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Diethylene glycol diethyl ether	112-36-7	55 - 65
Tetraethylene glycol dimethyl ether	143-24-8	10 - 20
Gamma-butyrolactone	96-48-0	<20
Proprietary organic materials	Trade secret	1 - 5
Tetraethylene glycol monobutyl ether	1559-34-8	1 - 5
Colorant	Trade secret	<1

## SECTION 4. FIRST AID MEASURES

### Description of first aid measures

- Inhalation : IF exposed or concerned: Get medical advice/attention.  
Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away.  
If breathing is difficult, give oxygen.
- Skin : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.  
If skin irritation occurs: Get medical advice/attention.
- Eyes : Immediately flush with room temperature, low pressure and clean water for at least 15 minutes.  
Seek medical attention if eye irritation continues.
- Ingestion : IF exposed or concerned: Get medical advice/attention.  
IF SWALLOWED: Do not induce vomiting.
- Most important symptoms and effects, both acute and delayed : Skin: Ink contact with skin may cause irritation, swelling or redness.
- Indication of any immediate medical attention and special treatment needed : Not necessary

## SECTION 5. FIREFIGHTING MEASURES

### Extinguishing Media

- Suitable extinguishing media : Water spray  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam
- Unsuitable extinguishing media : None known.
- Special hazards arising from the substance or mixture : None
- Advice for firefighters : Extinguish to use fire fighting media or plentiful fog water. Put protection wear without fail in case of fire fighting work; do not work in the leeward.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Eye or Skin protection required during clean-up. Use proper ventilation.

For emergency responders: None

Environmental precautions : Do not release to sewer, surface-or ground-water.

Methods and materials for containment and cleaning up

Advice on how to contain a spill : Use sponges to wipe-up ink.

Advice how to clean-up a spill : Rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water.

Any other information : Do not dispose of waste to the sewer.

Reference to other sections : Please refer SECTION 13 for disposal.

## SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Recommendations : Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use proper ventilation and no fire in work place.  
Keep out of reach of children and do not drink ink.  
Do not dismantle cartridge.

Advice on general occupational hygiene : Avoid contact with skin, eyes or clothing.  
In the case of skin contact, wash with soap and water.

Conditions for safe storage, including any incompatibilities : Store locked up.  
Do not store the cartridge in high or freezing temperatures.  
Keep cartridge out of direct sunlight.  
Do not store the cartridge with oxidizing agents or explosives.  
Make sure cartridge is dry before insertion into printer housing.

Specific end use(s): : Not specified.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls

Appropriate engineering controls : Proper ventilation.

Individual protection measures, such as personal protective equipment

Use of personal protective Equipment : Not required under suitable use as setting the cartridge on the printer under ventilation.  
If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing/ eye protection/ face protection/ respiratory protection.

Detailed specification on equipment to provide adequate and suitable protection

(a) eye/face protection : Not required under suitable use as setting the cartridge on the printer.  
If there is a possibility of exposure to raw ink: Wear eye protection/ face protection.

(b) skin protection: hand protection & : Not required under suitable use as setting the cartridge on the printer.

Others	If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing
(c) respiratory protection	: Not required under suitable use as setting the cartridge on the printer under ventilation. In case of inadequate ventilation wear respiratory protection.
(d) thermal hazards	: Not required under suitable use as setting the cartridge on the printer.
Environmental exposure controls	: Not established

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: cyan
Odour	: slightly
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: about 71°C (Closed cup)
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: Greater than 1 (air=1)
Relative density	: No data available
Solubility(ies)	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: No data available

Explosive properties : Explosive limits:1.4-6.9v/v% as Gamma-butyrolactone  
 Oxidizing properties : None  
 Particle size : Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under normal temperature  
 Chemical stability : Stable under normal temperature  
 Possibility of hazardous reactions : None  
 Conditions to avoid : High and freezing temperatures  
 Incompatible materials : Oxidizers and explosives  
 Hazardous decomposition products : No data available

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity : Oral LD50: > 2500 mg/kg (Rat)  
 Dermal LD50: > 2000 mg/kg (Rat)

Irritation  
 Eye : Mild irritant (Rabbit, OECD 405)  
 Skin : Mild irritant (Rabbit, OECD 404)

Corrosivity : Not meet the criteria for classification according to EU Directive 1999/45/EC

Sensitisation  
 Skin : Non-sensitizer (LLNA, OECD 429)

Carcinogenicity : Not meet the criteria for classification according to EU Directive 1999/45/EC  
 Not contain any substances listed in IARC Monographs (1,2A and 2B)

Mutagenicity : Negative (by Ames Test)

Toxicity for reproduction : T; R61,62 for classification according to EU Directive 1999/45/EC  
 Category1B for classification according to EU Directive (EC) No 1272/2008

## SECTION 12. ECOLOGICAL INFORMATION

Toxicity : No data available  
 Persistence and degradability : No data available  
 Bioaccumulative potential : No data available  
 Mobility in soil : No data available

Results of PBT and vPvB assessment : Has not carried out PBT and vPvB assessment

Other adverse effects : No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods : Disposal should be in accordance with federal, state, and local requirements.  
in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### SECTION 14. TRANSPORT INFORMATION

UN number : Not applicable

UN proper shipping name : Not applicable

Transport hazard class(es) : Not applicable

Packing group : Not applicable

Environmental hazards : Not applicable

Special precautions for user : Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons : No poison schedule number allocated

Prohibition/Licensing Requirements : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

#### **The components of this product are reported in the following inventories:**

AICS : All ingredients listed or exempt.

### SECTION 16. OTHER INFORMATION

#### **Further information**

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

This "Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation,



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