

# Safety Data Sheet

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

### 1.1. Identification of the substance or preparation

Product Name : Pigment Ink Light Cyan

Product Code : SPC-0180LC, 0494LC

### 1.2. Use of the substance/preparation

General Use : Ink jet printing ink

Product Description : Pigment Ink

### 1.3. Company/undertaking identification

#### MANUFACTURER

Company Name : Mimaki Engineering Co., Ltd

Address : 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan

Telephone No. : +81-268-64-2413

Charge post : Inks and Media Division

Person in charge : Isao Tabayashi

E-mail address : tabayashi@mimaki.jp

#### IMPORTER/DISTRIBUTOR ESTABLISHED IN EU

Company Name : MIMAKI EUROPE B.V.

Address : Joan Muyskenweg 42-44, 1099CK Amsterdam

Telephone No. : +31-20-4627-640

Person in charge : Sakae Sagane

### 1.4. Emergency telephone

EMERGENCY : Mimaki Engineering Co., Ltd +81-268-64-2413

TELEPHONE : National Vaccine Information Center (NVIC)

NUMBER : +31-30-274888

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW :

Ink component is a cyan liquid that cause eye, nose or throat irritation, and that effects anesthesia, if inhales.

Ink may flash, when under high temperature.

Avoid contact with eyes or clothing.

In the case of skin contact, wash with soap and water.

Keep out of reach of children. This product is not classified.

# Safety Data Sheet

## POTENTIAL HEALTH EFFECTS

- Inhalation : Intentional exposure to ink vapors(mist) will cause respiratory irritation and anesthesia.
- Eye : Ink contact with eye will be irritating.
- Skin : Ink contact with skin may cause minimally irritation.
- Ingestion : May cause upset stomach.

## POTENTIAL ENVIROMENTAL EFFECTS :

Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

No	Chemical Name	Wt%	CAS No.	EINECS No.	Symbol letters	Risk Phrase	Chemical Formula
1	Proprietary dyes and pigments	<5	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
2	Proprietary organic materials	5-10	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
3	Glycerols	10-15	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
4	Diethylene glycol	10-15	111-46-6	203-872-2	Xn	R22	C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>
5	Water	balance	7732-18-5	231-791-2	not classified	not classified	H <sub>2</sub> O

\* The wording of the symbol(s) and risk phrase(s) is special in 16.OTHER INFORMATION.

### 4. FIRST AID MEASURES

- INHALATION** : Remove subject to ventilated fresh air. Consult physician if necessary.
- EYE :** Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if eye irritation continues.
- SKIN :** Wash surface areas with soap and water. Wash soiled clothing before rewearing. Consult a physician if irritation continues.
- INGESTION :** Seek medical advice; and attention if stomach continues to be upset.
- PROTECTION TO FIRST-AIDERS :**  
Not available

## Safety Data Sheet

### 5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES :	Not flammable
EXTINGUISHING MEDIA :	Dry chemical or carbon dioxide
FIRE FIGHTING INSTRUCTIONS :	No special fire fighting procedures are required other than breathing apparatus. No special explosions are known.

### 6. ACCIDENTAL RELEASE MEASURES

No eye or skin protection required during clean-up. Use proper ventilation.

LAND SPILL :	If a spill occurs, use sponges to wipe-up ink, then rinse with damp cloth. Place waste in closed container for disposal.
WATER SPILL :	Do not dispose of waste to the sewer.

### 7. HANDLING AND STORAGE

HANDLING :	Keep out of reach of children and do not drink ink. Do not dismantle cartridge. Make sure cartridge is dry before insertion into printer housing.
STORAGE :	Do not store the cartridge in high or freezing temperatures. Keep cartridge out of direct sunlight. Do not store cartridge with oxidizing agents or explosives.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Exposure limit values

Not available

#### 8.2. Exposure controls

##### 8.2.1. Occupational exposure controls

Engineering Controls : Not special measures required.

##### Personal Protection

Respiratory Protection : Not required under suitable use as setting the cartridge on the printer; however, self – contained breathing apparatus or organic canister mask is sufficient when used for work.

Hand Protection : Not required under suitable use as setting the cartridge on the printer; however, wearing gloves is sufficient.

## Safety Data Sheet

Eye Protection : Not required under suitable use as setting the cartridge on the printer; however, wearing safety goggles is sufficient.

Skin Protection : Not required under suitable use as setting the cartridge on the printer; however, wearing gloves is sufficient.

### 8.2.2. Environmental exposure controls

Not established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information

Appearance - Physical state : liquid

- Colour : Cyan

Odour : None

### 9.2. Important health, safety and environmental information

pH : 9.0-11.0 (20 degree C)

Boiling Point / Boiling Range : Not available

Flash Point : Not detected until 95 degree C  
(closed cup, ASTM D3278)

Flammability(solid, gas) : Not available

Relative density : Not available

Solubility : Not available

Water solubility : complete

Partition Coefficient(n-octanol / water) : Not available

Viscosity : 3.5-4.5 (20 degree C)

Vapour density : Not available

### 9.3. Other information

Melting Point / Merging Range : Not available

Specific Gravity : 1.00-1.10 (20 degree C)

## 10. STABILITY AND REACTIVITY

CONDITONS TO AVOID : : High and freezing temperature

STABILITY : : Stable under normal temperature

MATERIALS TO AVOID : : Oxidizers and explosives

HAZARDOUS DECOMPOSITION PRODUCTS : : None

## Safety Data Sheet

### 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY :	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalant LC <sub>50</sub>
	>2000mg/kg(Rat)*	>2000mg/kg(Rat)*	No data available
EYE IRRITATION :	Overexposure of eye surface to ink may be mildly irritating		
SKIN IRRITATION :	Overexposure of skin to ink contact may cause irritation and in some people swelling and redness		
SENSITIZATION :	Not available		
MUTAGENICITY :	Negative (Ames assay)*		
CARCINOGENICITY :	Not contain any substances listed IARC Monographs (1,2A and 2B)		

### 12. ECOLOGICAL INFORMATION

ECOTOXICITY :	No data available on the adverse effects of this ink on the environment
PERSISTENCE AND DEGRADABILITY :	No data available on the adverse effects of this ink on the environment
BIOACCUMULATIVE POTENTIAL :	No data available on the adverse effects of this ink on the environment
RESULTS OF PBT ASSESSMENT :	Not available
OTHER ADVERSE EFFECTS :	No data available

### 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with federal, state, and local requirements.

Do not dump this product into sewers, on the ground or into any body of water.

### 14. TRANSPORT INFORMATIONS

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

UN Class/UN Number : Not applicable

DOT, IMO, or IATA : Not hazardous classification

## Safety Data Sheet

### 15. REGULATORY INFORMATION

Symbols and indication according to 1999/45/EC:

The material does not meet the criteria for classification as dangerous.

Please refer to any other EU, national and local measures.

### 16. OTHER INFORMATION

From clause 3

Symbol letters : Xn Harmful

Risk phrase : 22 Harmful if swallowed.

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

#### Revision history

Version	Date	Content
1.0	Sep 25, 2007	First issue
2.0	Feb 5, 2008	No. 1.4 EMERGENCY TELEPHONE NUMBER