

Safety Data Sheet

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

1.1. Identification of the substance or preparation

Product Name : Dye Ink Light Cyan
Product Code : SPC-0258LC

1.2. Use of the substance/preparation

General Use : Ink jet printing ink
Product Description : Dye 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 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.

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	Colorants	<5	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
2	Organic materials	<5	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
3	Glycerols	About 10	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
4	TEGBE	About 10	143-22-6	205-592-6	Xi	R41	C ₁₀ H ₂₂ O ₄
5	Diethylene glycol	10-15	111-46-6	203-872-2	Xn	R22	C ₄ H ₁₀ O ₃
6	Water	balance	7732-18-5	231-791-2	not classified	not classified	H ₂ 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. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek immediate medical attention.
- EYE** : Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if eye irritation continues. 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.

Safety Data Sheet

INGESTION : Seek medical advice; and attention if stomach continues to be upset.

PROTECTION TO FIRST-AIDERS

: Not available

5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES

: Not flammable

EXTINGUISHING MEDIA

: Dry chemical or carbon dioxide

FIRE FIGHTING INSTRUCTIONS

: Extinguish to use fire fighting media or plentiful fog water. No special fire fighting procedures are required other than breathing apparatus.

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 : Use proper ventilation and no fire in work place. Put protection wear that has electrical conductivity in case of work. 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 cartridges with oxidizing agents or explosives.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Not available

Safety Data Sheet

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.

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 : 8.0-10.0 (20 degree C)

Boiling Point / Boiling Range : Not available

Flash Point : Not detected until 110 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 : 3.0-4.0 (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)

Safety Data Sheet

10. STABILITY AND REACTIVITY

CONDITONS TO AVOID	: High and freezing normal temperature.
STABILITY	: Stable under normal temperature.
MATERIALS TO AVOID	: Oxidizers and explosives
HAZARDOUS DECOMPOSITION PRODUCTS	: None

11. TOXICOLOGICAL INFORMATION

*Based on toxicology data of chemically similar material

ACUTE TOXICITY	: Oral LD ₅₀	Dermal LD ₅₀	Inhalant LC ₅₀
	>5000mg/kg(Rat)*	>2000mg/kg(Rat)*	No data available
EYE IRRITATION	: Minimal irritating (Rabbit, OECD405)		
SKIN IRRITATION	: Non irritating (Rabbit OECD 404)		
SENSITIZATION	: Non sensitizing (Guinea pig OECD 406)		
MUGTAGENICITY	: Negative(Ames assay)		
CARCINOGENICITY	: Not contain any substances listed in 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 SFFECTS	: 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.

Safety Data Sheet

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

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 : Xi Irritant
 Xn Harmful
Risk phrase : 22 Harmful if swallowed.
 41 Risk of serious damage to eyes.

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 dose 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	Oct 2, 2007	First issue
2.0	Feb 5, 2008	No. 1.4 EMERGENCY TELEPHONE NUMBER