

Safety Data Sheet

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

1.1. Identification of the substance or preparation

Product Name : MILD SOLVENT 2 Cyan

Product Code : SPC-0360C

1.2. Use of the substance/preparation

General Use : For Ink Jet

Product Description : Solvent 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.

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This product is classified as 'Irritant (Xi)'.

POTENTIAL HEALTH EFFECTS

- Inhalation : Intentional exposure to ink vapors(mist) will cause respiratory irritation and anesthesia.
- Eye : R36 Irritant to eyes.
- Skin : Ink contact with skin may cause minimally irritation.
- Ingestion : May cause upset stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

No	Chemical Name	Wt%	CAS No.	EINECS No.	Symbol letters	Risk Phrase	Chemical Formula
1	(2-methoxymethyl ethoxy)propanol	15-25	34590-94-8	252-104-2	not classified	not classified	C7H16O3
2	Bis(2-ethoxyethyl) ether	45-55	112-36-7	203-963-7	not classified	not classified	C8H18O3
3	3,6,9,12-tetraoxa hexadecan-1-ol	5-15	1559-34-8	216-322-1	not classified	not classified	C12H26O5
4	gamma-butyrolactone	10-20	96-48-0	202-509-5	not classified	not classified	C4H6O2
5	Pigment Blue	1-5	Registered	Registered	not classified	not classified	Trade Secret

*The wording of the symbol(s) and risk phrase(s) is specified 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.
- SKIN : Wash surface areas with soap and water. Wash soiled clothing before reweaving. Consult a physician if irritation continues.

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

5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES

: Combustible liquid. See Section 9 for Flash Point.

EXTINGUISHING MEDIA

: Water spray, dry chemical, CO₂, alcohol foam

FIRE FIGHTING INSTRUCTIONS

: 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.

Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

6. ACCIDENTAL RELEASE MEASURES

Removed the person of the leeward. Keep away the person from periphery of the place of the leakage. Remove the ignition promptly. Put protection wear without fail in case of work; do not work in the leeward. Ventilate sufficiently during clean-up in case of inside of a house. Use sponges to wipe-up ink, and then rinse area with damp cloth. Place waste in closed container for disposal. Do not dispose of waste to the sewer. Wash hands with soap and water.

7. HANDLING AND STORAGE

HANDLING : Use proper ventilation and so fire in work place.

Do not dismantle cartridge.

Make sure cartridge is dry before insertion into printer housing.

STORAGE : Keep out of reach of children and do not drink ink.

Do not store the cartridge in high or freezing temperatures.

Keep cartridge out of direct sunlight.

Do not store cartridges with oxidizing with agents or explosives.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Chemical Name		TWA	STEL	Ceiling	Skin	SEN
(2-methoxymethylethoxy)propanol	ACGIH 2007 TLVs and BEIs	100ppm	150ppm	N.E.	N.E.	N.E.

8.2. Exposure controls

8.2.1. Occupational exposure controls

Engineering Controls : Use exhaust ventilation to keep airborne concentration below exposure limits.

Personal Protection

Respiratory Protection : An air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where air-borne concentrations are expected to exceed exposure limits.

Hand Protection : Glove

Eye Protection : Chemical goggles

Skin Protection : apron

8.2.2. Environmental exposure controls

: Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance - Physical state : liquid

- Colour : Cyan

Odour : Slight

9.2. Important health, safety and environmental information

pH : Not Applicable

Boiling Point / Boiling Range : Not available

Flash Point : about 71°C(Close cup)

Flammability(solid, gas) : None

Explosive Properties : 1.1~14v/v% as (2-methoxymethylethoxy)propanol

Oxidising Properties : None

Vapour Pressure : Greater than 1 (air=1)

Relative density : Not available

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Solubility : Not available

Water solubility : Soluble

Viscosity : Not available

9.3. Other information

Melting Point / Melting Range : Not available

Specific Gravity : Not available

10. STABILITY AND REACTIVITY

CONDITONS : High temperature

TO AVOID

STABILITY : Stable under normal temperature

MATERIALS : Oxidizers and explosives

TO AVOID

HAZARDOUS : There is a threat that dissolve rubber, plastic.

DECOMPOSITION : When this burnt, there is a threat that it occurs with the poisonous
PRODUCTS gases such as the carbon monoxide.

11. TOXICOLOGICAL INFORMATION

*Based on toxicology data of chemical similar material

ACUTE TOXICITY : Oral LD50 : Dermal LD50
>2500mg/kg(Rat)* >2000mg/kg(Rat)*

EYE IRRITATION : Moderate irritant(Rabbit)*

SKIN IRRITATION : Mild irritant(Rabbit)*

SENSITIZATION : Non-sensitiser(LLNA)*

MUTAGENICITY : Non-mutagenic(Ames assay)*

12. ECOLOGICAL INFORMATION

Handling is noted because it might influence the environment when leaking and abandoning it. Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

ECOTOXICITY : Not available

PERSISTENCE AND DEGRADABILITY

: Not available

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BIOACCUMULATIVE POTENTIAL

: Not available

RESULTS OF PBT ASSESSMENT

: Not available

OTHER ADVERSE EFFECTS

: Not available

13. DISPOSAL CONSIDERATIONS

Comply with all EU, national and local regulations.

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

14. TRANSPORT INFORMATION

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

No regulated as Hazardous Material

15. REGULATORY INFORMATION

This product is classified as follows and labeled accordingly.

Symbol : Xi (Irritant)



Risk Phrase : 36 Irritant to eyes.

Safety Advise : 25 Avoid contact to eyes.

26: In case of contact with eyes, rinse immediately with plenty water
and seek medical advice.

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

16. OTHER INFORMATION

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.



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Revision history

Version	Date	Content
1.0	2008/01/21	First issue