

Safety Data Sheet

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

1.1. Identification of the substance or preparation

Product Name : Sublimation Dye Ink Cyan

Product Code : SPC-0370C

1.2. Use of the substance/preparation

General Use : Ink jet printing ink

Product Description : Sublimation 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 : Ensure adequate ventilation. Eye wash fountains must be easily accessible. Wear full face shield if splashing hazard exists. Wear protective clothing.

POTENTIAL : Primary routes of exposure

HEALTH EFFECTS : Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied

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gases.

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	Water	>=70.0-<=80.0	7732-18-5	231-791-2	not classified	not classified	H ₂ O
2	Proprietary, non-hazardous	>=5.0-<=10.0	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
3	Proprietary	>=5.0-<=10.0	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
4	Pentane-1,2-diol	>=3.0-<=8.0	5343-92-0	226-285-3	Xi	R41	C ₅ H ₁₂ O ₂
5	TSRN 489909-5019-P-PC	>=1.0-<=5.0	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
6	Disperse blue 359	>=1.0-<=5.0	Trade Secret	Trade Secret	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 : If difficulties occur after vapour / aerosol has been inhaled, remove to fresh air and seek medical attention.

EYE : Wash affected eyes for at least 15minutes under running water with eyelids held open.

SKIN : Wash thoroughly with soap and water.

INGESTION : Rinse mouth and then drink plenty of water.

PROTECTION TO FIRST-AIDERS

: Not available

5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES

: Flash point: > 100 degree C

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EXTINGUISHING MEDIA

: water spray, dry extinguishing media, foam, carbon dioxide

FIRE FIGHTING INSTRUCTIONS

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective clothing.

Environmental precautions : Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up

For large amounts : Pump off product.

For residues : Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. HANDLING AND STORAGE

HANDLING : No special measures necessary provided product is used correctly.
Protection against fire and explosion: No special precautions necessary.

STORAGE : Keep container tightly closed and in a cool place.
Protect from temperatures below: 0 degree C.
Protect from temperatures above: 40 degree C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Not available

8.2. Exposure controls

8.2.1. Occupational exposure controls

Engineering Controls : It is better to place local exhaust equipment.

Personal Protection

Respiratory Protection : Respiratory protection in case of vapour/aerosol release.

Hand Protection : Chemical resistant protective gloves (EN374)
Suitable materials short-term contact and/or splashes

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(recommended: At least protective index 2, corresponding >30 minutes of permeation time according to EN 374)
 butyl rubber(butyl) - 0.7mm coating thickness
 Supplementary note: The specifications are based on own tests, literature data and information of glove manufactures or are derived from similar substances by analogy. Due to many conditions(e.g. temperature) it must be considered, that the practical usage of a chemical – protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374. Manufacturer's directions for use should be observed because of great diversity of types.

Eye Protection : Safety glasses with side – shields(frame goggles) (EN 166)

Skin Protection : Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation.

8.2.2. Environmental exposure controls

: Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance - Physical state : liquid
 - Colour : blue
 Odour : product specific

9.2. Important health, safety and environmental information

pH : 7-9 (20 degree C)
 Boiling Point / Boiling Range : approx. 100 degree C
 Flash Point : >100 degree C
 Flammability(solid, gas) : does not ignite
 Vapour Pressure : approx. 23mbar (20 degree C)
 Relative density : approx. 1.1g/cm³ (20 degree C)
 Solubility : Not available
 Water solubility : insoluble (15 degree C)
 Viscosity : 2.5-3.5mPa.s (20 degree C)

9.3. Other information

Melting Point / Melting Range : Not available
 Specific Gravity : 1.00~1.10

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10. STABILITY AND REACTIVITY

CONDITONS TO AVOID	: Not available.
STABILITY	: No hazardous reactions when stored and handled according to instructions.
MATERIALS TO AVOID	: Not available.
HAZARDOUS DECOMPOSITION PRODUCTS	: No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	: LD50/oral/rat: >2,000mg/kg : Pentane-1,2-diol Oral, mouse: LD50 = 7400 mg/kg Oral, rabbit: LD50 = 3700 mg/kg Oral, rat: LD50 = 12700 mg/kg
EYE IRRITATION	: Not available
SKIN IRRITATION	: rabbit: non irritant(OECD Guideline 404)
SENSITIZATION	: Not available
MUTAGENICITY	: Not applicable
OTHERS	: The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. ECOLOGICAL INFORMATION

ECOTOXICITY	: Leuciscus idus/LC50 (96 h):>100mg/l
Toxicity to fish	: OECD Guideline 209
Microorganisms/Effect on activated sludge	Pseudomonas putida/EC50:>1,000mg/l Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
PERSISTENCE AND DEGRADABILITY	
Elimination information	Test method : OECD 301A, activated sludge Method of analysis : DOC reduction Degree of elimination : >70% Evaluation :Biodegradable

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BIOACCUMULATIVE POTENTIAL

: Not available

RESULTS OF PBT ASSESSMENT

: Not available

OTHER ADVERSE EFFECTS

: Adsorbable organically-bound halogen (AOX): 0%

13. DISPOSAL CONSIDERATIONS

Must be dumped or incinerated in accordance with local regulations.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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.

Not classified as hazardous under transport regulations.

15. REGULATORY INFORMATION

This product does not require a hazard warning label in accordance with EC Directives.

Comply with all EU, national and local regulations.

16. OTHER INFORMATION

From clause 3

Symbol letters : Xi Irritant

Risk phrase : 41 Risk of serious damage to eyes.

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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	Oct 16, 2007	First issue
2.0	Feb 5, 2008	No. 1.4 EMERGENCY TELEPHONE NUMBER No. 2 HAZARDS IDENTIFICATION No. 3 COMPOSITION / INFORMATION ON INGREDIENTS No 11 TOXICOLOGICAL INFORMATION