

Safety Data Sheet

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

1.1. Identification of the substance or preparation

Product Name : Acid Dye Ink Magenta
Product Code : SPC-0355M, 0392M

1.2. Use of the substance/preparation

General Use : Ink jet printing ink
Product Description : Acid 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 magenta liquid that causes eye irritation. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

Inhalation : Intentional exposure to ink vapors may cause respiratory irritation.
Eye : Ink contact with eye may be mildly irritating.

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

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	15-20	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
4	2,2'-oxydiethanol	<10	111-46-6	203-872-2	Xn	R22	C ₄ H ₁₀ O ₃
5	2-(2-(2-butoxyethoxy)ethoxy)ethanol	5-10	143-22-6	205-592-6	Xi	R41	C ₁₀ H ₂₂ O ₄
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 specified 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

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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 explosion hazards are known.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL : If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal.

WATER SPILL : Do not dispose of waste to use 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 cartridges with oxidizing agents or explosives.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

2,2'-oxydiethanol: MAK: 10 ppm, 44 mg/m³; Peak limitation category: II(4); Pregnancy risk group: C; (DFG 2004).

8.2. Exposure controls

8.2.1. Occupational exposure controls

Engineering : Not special measures required.

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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.

8.2.2. Environmental exposure controls

: Not established.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

- Appearance - Physical state : liquid
 - Colour : Magenta
 Odour : Faint odor

9.2. Important health, safety and environmental information

- pH : 8.5-10.0 (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
 Viscosity : less than 5 mPa · s (20 degree C)

9.3. Other information

- Melting Point / Merging Range : Not applicable
 Auto-Ignition Temperature : Not available
 Specific Gravity : 1.00~1.10

10. STABILITY AND REACTIVITY

- CONDITONS TO AVOID : High and freezing temperatures.
 STABILITY : Stable
 MATERIALS TO AVOID : Oxidizers and explosives

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HAZARDOUS DECOMPOSITION PRODUCTS : None

11. TOXICOLOGICAL INFORMATION

- ACUTE TOXICITY : 2,2'-oxydiethanol
Oral LD50 13,300-23,700 mg/kg (mouse)
Oral LD50 12,565-15,600 mg/kg (rat)
Oral LD50 4,400-26,900 mg/kg (rabbit)
Dermal LD50 11,890 mg/kg (rabbit)
: 2-(2-(2-butoxyethoxy)ethoxy)ethanol
Oral LD50 5300mg/kg (rat)
Dermal LD50 3540mg/kg (rabbit)
- EYE IRRITATION : Not meet the criteria for classification according to EU Directive 1999/45/EC.
- SKIN IRRITATION : Not meet the criteria for classification according to EU Directive 1999/45/EC.
- SENSITIZATION : Not meet the criteria for classification according to EU Directive 1999/45/EC.
- MUTAGENICITY : Not meet the criteria for classification according to EU Directive 1999/45/EC.
- CARCINOGENICITY : Not contain any substances listed in IARC Monographs (1,2A and 2B)

12. ECOLOGICAL INFORMATION

- ECOTOXICITY : 2,2'-oxydiethanol
EC50 2,700 (mg/l) (7-d)(Scenedesmus quadricauda)
EC50 >10,000 (mg/l) (24-h)(Daphnia magna)
LC50 >5,000 (mg/l) (24-h)(Carassius auratus)
LC50 >32,000 (mg/l) (96-h)(Gambusia affinis)
LC50 75,200 (mg/l) (96-h)(Pimephales promelas)
: 2-(2-(2-butoxyethoxy)ethoxy)ethanol
(Scenedesmus quadricauda)
48hr-EC50 >1000 (mg/L), 48hr-NOEC 180 (mg/L)
72hr-EC50 780 (mg/L), 72hr-NOEC 100 (mg/L)
(Daphnia magna) 48hr-EC50 >860 (mg/L)

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21day-EC50 >100 (mg/L), 21day-NOEC 100 (mg/L)

(Oryzias latipes) 96hr-LC50 > 100 (mg/L)

PERSISTENCE AND DEGRADABILITY

: Not available

BIOACCUMULATIVE POTENTIAL

: Octanol/water partition coefficient

(2,2'-oxydiethanol) log Pow: -1.98

(2-(2-(2-butoxyethoxy)ethoxy)ethanol) log Pow: 0.02

RESULTS OF PBT ASSESSMENT

: Not available

OTHER ADVERSE EFFECTS

: Not 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 INFORMATION

Not regulated as a Hazardous Material

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

15. REGULATORY INFORMATION

All components are compliant with EU chemical inventory regulations or exempted.

This ink does not need to be labeled in accordance with EU Directive 1999/45/EC.

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.



Safety Data Sheet

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 12, 2007	First issue
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