

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 Black
Product Code : SPC-0258K

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 black 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. This product is not classified.

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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 pigment	5-10	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
2	Proprietary organic materials	10-15	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	Diethylene glycol	<10	111-46-6	203-872-2	Xn	R22	C ₄ H ₁₀ O ₃
5	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. 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

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

LAND SPILL : If a spill occurs, use sponges to wipe-up ink, and 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 cartridges with oxidizing agents or explosives.
SPECIFIC USES : Not specified

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.

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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	: Black
Odour	: None

9.2. Important health, safety and environmental information

pH	: 8.0-9.0 (20 degree C)
Boiling Point / Boiling Range	: Not available
Flash Point	: Not detected until 100 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 / Melting Range	: Not available
Specific Gravity	: 1.00-1.10 (20 degree C)

10. STABILITY AND REACTIVITY

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

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11. TOXICOLOGICAL INFORMATION

*Based on toxicology data of chemically similar material

ACUTE TOXICITY :	Oral LD ₅₀	Dermal LD ₅₀	Inhalant LC ₅₀
	>2000mg/kg(Rat)*	>2000mg/kg(Rat)*	No data available
EYE IRRITATION :	Minimal irritating (Rabbit, OECD405)		
SKIN IRRITATION :	Mild irritating (Rabbit OECD 404)		
SENSITIZATION :	Non sensitizing (Guinea pig OECD 406)		
MUGTAGENICITY :	Not contain any substances listed in IARC Monographs(1,2A and 2B)		
CARCINOGENICITY :	Negative(Ames assay)		

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.

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

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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 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