

# Safety Data Sheet

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

### 1.1. Identification of the substance or preparation

Product Name : Pigment Ink Black  
Product Code : SPC-0180K, 0494K

### 1.2. Use of the substance/preparation

General Use : Ink jet printing ink  
Product Description : 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 black 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. This product is not classified.

# 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	Glycerols	15-20	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
2	Proprietary organic materials	5-10	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
3	Proprietary dyes and pigment	<5	Trade Secret	Trade Secret	not classified	not classified	Trade Secret
4	Carbon Black	<5	1333-86-4	215-609-9	not classified	not classified	Trade Secret
5	TEGBE	5-10	143-22-6	205-592-6	Xi	R41	C <sub>10</sub> H <sub>22</sub> O <sub>4</sub>
6	Water	balance	7732-18-5	231-791-2	not classified	not classified	H <sub>2</sub> 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, and 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

## Safety Data Sheet

### 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.

### 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

## Safety Data Sheet

### 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 : Wear coverall, chemical goggles and face shield when handling.
- Skin Protection : To prevent ANY contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.

### 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 : 8.5-10.0 (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 : 1.06 (20 degree C)  
Solubility : Not available  
Water solubility : Complete  
Partition Coefficient(n-octanol / water) : Not available  
Viscosity : 3.5-4.5 (20 degree C)  
Vapour density : Greater than 1 (air=1)

### 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 temperatures.
STABILITY :	Stable under 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 <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalant LC <sub>50</sub>
	>2000mg/kg(Rat)*	>2000mg/kg(Rat)*	No data available
EYE IRRITATION :	Overexposure of eye surface to ink may be mildly irritating.		
SKIN IRRITATION :	Overexposure of skin to ink contact may cause irritation and in some people swelling and redness.		
SENSITIZATION :	Not available		
MUTAGENICITY :	Negative (Ames assay)*		
CARCINOGENICITY :	With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens as group 3.		

### 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

## Safety Data Sheet

### 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

### 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  
Risk phrase : 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	Sep 25, 2007	First issue
2.0	Feb 5, 2008	No. 1.4 EMERGENCY TELEPHONE NUMBER