

# Safety Data Sheet

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

### 1.1. Identification of the substance or preparation

Product Name : Cleaning Solution MS2/ES3/HS Kit 200  
Product Code : SPC-0369

### 1.2. Use of the substance/preparation

General Use : Cleaning solution for ink jet printer  
Product Description : Solvent clear liquid

### 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 clear liquid that causes 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 not classified as hazardous according to EU Directive 1999/45/EC.

## 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

: No data available on the adverse effects of this ink on the environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

No	Chemical Name	Wt%	CAS No.	EINECS No.	Symbol letters	Risk Phrase	Chemical Formula
1	Dipropylene glycol monomethyl ether	35-45	34590-94-8	252-104-2	Not classified	Not classified	C <sub>7</sub> H <sub>16</sub> O <sub>3</sub>
2	Diethylene glycol diethyl ether	35-45	112-36-7	203-963-7	Not classified	Not classified	C <sub>8</sub> H <sub>18</sub> O <sub>3</sub>
3	Triethylene glycol monomethyl ether	20-30	112-35-6	203-962-1	Not classified	Not classified	C <sub>7</sub> H <sub>16</sub> O <sub>4</sub>

### 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, 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.

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### PROTECTION TO FIRST-AIDERS

: Wear a tool for appropriate protection. Ventilate.

## 5. FIRE-FIGHTING MEASURES

### FLAMMABLE PROPERTIES

: Flash point: about 76 degree C (Closed cup)

Auto flammability: None

Explosive properties: 1.1~14v/v% as dipropylene glycol monomethyl ether

### EXTINGUISHING MEDIA

: Water spray, dry chemical, carbon dioxide or, 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

LAND SPILL : Removed the person of the leeward. Keep away the person from periphery of the place of the leakage. If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water.

WATER SPILL : Do not dispose of waste to the sewer.

## 7. HANDLING AND STORAGE

HANDLING : Use proper ventilation and no fire in work place. Put protection wear that has electrical conductivity in case of work. Keep out of reach of children and do not drink ink. Do not dismantle bottle. Make sure bottle is dry.

STORAGE : Do not store the bottle in high or freezing temperatures. Keep bottle out of direct sunlight. Do not store bottle with oxidizing agents or explosives.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Exposure limit values

No	Chemical Name		TWA	STEL	Ceiling	Skin	SEN
1	Dipropylene glycol monomethyl ether	2000/39/EC	N.E.	N.E.	N.E.	N.E.	N.E.
		ACGIH TLV	100ppm	140ppm	N.E	N.E	N.E

### 8.2. Exposure controls

#### 8.2.1. Occupational exposure controls

Engineering : Closed system or local ventilation is recommended.

Controls

Personal Protection

Respiratory : Put self-contained breathing apparatus or organic canister mask.

Protection

Hand Protection : Put safety gloves that resist organic solvents and chemicals.

Eye Protection : Put eye shields.

Skin Protection : To prevent any contact, put long sleeve jacket, head trousers and apron.

#### 8.2.2. Environmental exposure controls

: Not established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information

Appearance - Physical state : Liquid

- Colour : Clear

Odour : Slight solvent odor

### 9.2. Important health, safety and environmental information

pH : Not Applicable

Boiling Point / Boiling Range : Not Applicable

Flash Point : About 76 degree C (Closed cup)

Flammability(solid, gas) : Not Applicable

Explosive Properties : 1.1~14v/v% as dipropylene glycol monomethyl ether

Relative density : Not Applicable

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Solubility	: Not Applicable
Water solubility	: Soluble
Viscosity	: 2.4mPa.s (25 degree C)
Vapour density	: Greater than 1 (air = 1)
9.3. Other information	
Melting Point / Melting Range	: Not Applicable
Specific Gravity	: 0.95 g/cm <sup>3</sup> (25 degree C)

### 10. STABILITY AND REACTIVITY

CONDITONS TO AVOID	: High and freezing temperatures. Direct sunlight.
STABILITY	: Stable under normal temperature
MATERIALS TO AVOID	: Oxidizers and explosives
HAZARDOUS	: Not available
DECOMPOSITION PRODUCTS	

### 11. TOXICOLOGICAL INFORMATION

\*Based on toxicology data of chemically similar material

ACUTE TOXICITY	: Oral LD <sub>50</sub> > 2500mg/kg (Rat)*	Dermal LD <sub>50</sub> > 2000mg/kg (Rat)*	Inhalant LC <sub>50</sub> No data available
EYE IRRITATION	: Mild irritant (Rabbit, OECD405)*		
SKIN IRRITATION	: Mild irritant (Rabbit OECD 404)*		
SENSITIZATION	: Non-sensitiser (Guinea pig OECD 406 )*		
MUTAGENICITY	: Negative (Ames assay)*		
ACUTE HEALTH HAZARDS	: Overexposure of eye surface to ink may be mildly irritating. Overexposure of skin to ink contact may cause irritation and in some people swelling and redness. Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation and anesthesia. Intentional or accidental oral ingestion may cause an upset stomach		

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### 12. ECOLOGICAL INFORMATION

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

Ecotoxicity : No data available on the adverse effects of this ink on the  
Persistence And Degradability environment  
Bioaccumulative Potential  
Other Adverse Effects : 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.  
Comply with all USA, state, and local regulations.  
UN Class/UN Number: Not Applicable

### 15. REGULATORY INFORMATION

Symbols and indication according to 1999/45/EC  
: This ink does not meet the criteria for classification as dangerous.

### 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 dose not relates to use in combination with any other material or process.  
Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.



Product Name : Cleaning Solution  
MS2/ES3/HS Kit 200  
MSDS No.032-33C030B  
First issue : 2007/10/30  
Revised: 2008/03/13  
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### Revision history

Version	Date	Content
1.0	2007/10/30	First issue
2.0	2008/03/13	No.1 Addition of the emergency telephone.