

Safety Data Sheet

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

1.1. Identification of the substance or preparation

Product Name : MILD SOLVENT WASHING LIQUID
SOLVENT INK PRE FILL UP SOLUTION
Product Code : SPC-0294
SPC-0337, 0475

1.2. Use of the substance/preparation

General Use : For ink jet
Product Description : Washing liquid, Pre fill up solution

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 :

This solution component is a clear 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.

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In the case of skin contact, wash with soap and water. Keep out of reach of children. This product is not classified.

POTENTIAL HEALTH EFFECTS

- Inhalation: Intentional exposure to cleaning solution vapors (mist) will cause respiratory irritation and anesthesia.
- Eye: This solution contact with eye will be irritating.
- Skin: This solution 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	(2-methoxymethyl ethoxy)propanol	40-50	34590-94-8	252-104-2	NC	NC	C7H16O3
2	Proprietary organic material	balance	Trade Secret	Trade Secret	-	-	Trade Secret

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, 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 reweaving. Consult a physician if irritation continues.
- INGESTION:** Seek medical advice; and attention if stomach continues to be upset.
- PROTECTION TO FIRST-AIDERS:** Wear a tool for appropriate protection (protection glasses, protection masks, gloves). Appropriate ventilation.

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5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point : about 76°C (Close cup)

Explosive Properties : 1.1~14v/v% as (2-methoxymethylethoxy)propanol

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

Personal protections: Removed the person of the leeward. Keep away the person from periphery of the place of the leakage. Ventilate sufficiently during clean-up in case of inside of a house.

Methods for cleaning up: If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Do not dispose of waste to the sewer. Wash hands with soap and water.

7. HANDLING AND STORAGE

HANDLING: Use proper ventilation and so fire in work place. Put protection wear that has electrical conductivity in case of work. Keep out of children and do not drink ink. Do not dismantle cartridge.

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

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

No	Chemical Name		
1	(2-methoxymethylethoxy)propanol	EU	308mg/m ³ ,50ppm
		ACGIH TLV	100ppm

8.2. Exposure controls

8.2.1. Occupational exposure controls

Engineering Controls : Closed system or local ventilation is recommended.

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, putting safety gloves are endurable for organic solvent.

Eye Protection: Not required under suitable use as setting the cartridge on the printer; however, putting eye shields are endurable for organic solvent.

Skin Protection : Not required under suitable use as setting the cartridge on the printer; however, putting long sleeve jacket, head trousers and apron are endurable for organic solvent.

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

9.2. Important health, safety and environmental information

pH : Not Applicable

Boiling Point / Boiling Range : Not available

Flash Point : about 76°C (Close cup)

Flammability(solid, gas) : Not available

Explosive Properties : 1.1~14v/v% as (2-methoxymethylethoxy)propanol

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Relative density : Not available
Solubility : Not available
Water solubility : Soluble
Viscosity : Not available
Vapour density : Greater than 1 (air=1)

9.3. Other information

Melting Point / Melting Range : Not available
Specific Gravity : Not available

10. STABILITY AND REACTIVITY

CONDITONS TO AVOID : High temperature
STABILITY : Stable under normal temperature
MATERIALS TO AVOID : Oxidizers and explosives
HAZARDOUS DECOMPOSITION : Not available
PRODUCTS

11. TOXICOLOGICAL INFORMATION

*Based on toxicology data of chemically similar material

ROUTES OF : Eye, skin, inhalation and oral

OVEREXPOSURE

ACUTE TOXICITY

Oral LD50	Dermal LD50	Inhalant LC50
>2500mg/kg (Rat)*	>2000mg/kg (Rat)*	No data available

ACUTE HEALTH : Overexposure of eye surface to ink may be mildly irritating.

HAZARDS 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

EYE IRRITATION : Mild irritant (Rabbit, OECD405)*

SKIN IRRITATION : Mild irritant (Rabbit, OECD404)*

SKIN SENSITIZING : Non-sensitiser (Guina pig OECD 406) *

SENSITIZATION : Not available

REPEATED DOSE TOXICITY : Not available

CHRONIC TOXICITY : Not available

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MUTAGENICITY : Negative (Ames assay) *
CARCINOGENICITY : Not available
REPRODUCTIVE AND DEVELOPEMENTAL TOXICITY : Not available

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY : Not available
PERSISTENCE AND DEGRADABILITY : Not available
BIOACCUMULATIVE POTENTIAL : Not available
RESULTS OF PBT ASSESSMENT : Not available
OTHER ADVERSE SFFECTS : Not available

13. DISPOSAL CONSIDERATIONS

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 INFORMATIONS

Check a thing without a leak in a container.
Perform prevention of collapse of cargo surely.
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.

Please refer to any other EU, national and local measures.



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Product Name:
MILD SOLVENT WASHING LIQUID
SOLVENT INK PRE FILL UP SOLUTION
MSDS No.032-33C030C
First issue: 2007/12/26
Revised: 2008/02/12
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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 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	2007/12/26	First issue
2.0	2008/02/12	1.4 Emergency telephone