

Material Safety Data Sheets

1. Product and Company Identification

Product Name	: Flushing Liquid 03 / Maintenance Liquid 03
Order No.	: FL003-Z-BB / FL003-Z-22 / FL003-Z-2L / ML003-Z-K1
Ink Ver	: 1
General Use	: Washing liquid of ink
Product Description	: Aqueous liquid
MSDS Number	: 031-38C190B
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd
Address	: 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone No.	: +81-268-64-2413
Importer/Distributor Established in USA	
Company Name	: MIMAKI USA. INC.
Address	: 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A
Telephone No.	: 1-678-730-0100
Emergency Telephone No.	: +81-268-64-2281

2. Hazards Identification

Emergency Overview	: Liquid 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. In the case of skin contact, wash with soap and water. Keep out of reach of children.
Potential Health Effects	
Inhalation	: Intentional exposure to liquid vapors (mist) will cause respiratory irritation and anesthesia.
Eye Contact	: Liquid contact with eye will be irritating.
Skin Contact	: Liquid contact with skin may cause minimally irritation.
Ingestion	: May cause upset stomach.
Carcinogens	: None known.
Potential Environmental Effects	: Not available.

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3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Proprietary organic materials	<5	Trade Secret	Trade Secret
2	Water	balance	7732-18-5	H ₂ O

OSHA Hazardous : Not hazardous

Components
 (29 CFR 1910. 1200)

4. First Aid Measures

Inhalation : Remove subject to ventilated fresh air. Consult physician if necessary.

Eye Contact : Immediately flush with room temperature, low pressure, and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

Skin Contact : Wash surface areas with soap and water. Wash soiled clothing before rewearing. Consult a physician if irritation continues.

Ingestion : If swallowed, get medical attention. Do not give anything by mouth to an unconscious person.

Protection To First-Aiders : Not available.

5. Fire Fighting Measures

Flammable Properties : Not flammable.

Extinguishing Media : Dry chemical or carbon dioxide.

Fire Fighting : Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

Instructions : No special explosion hazards are known.

6. Accidental Release Measures

Personal Precautions : Wear personal protective clothing and equipment, see Section 8.

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- 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 : Avoid contact with eyes, skin and clothing.
Avoid breathing vapor or mist. Wash thoroughly after handling.
- 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

Exposure Limit Values : Not available.

Exposure Controls

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.

Hand Protection : Not required under suitable use as setting the cartridge on the printer; however, wearing gloves is sufficient.



Gloves

Eye Protection : Not required under suitable use as setting the cartridge on the printer; however, wearing safety goggles is sufficient..



Safety Glasses

Skin Protection : Not required under suitable use as setting the cartridge on the printer; however, wearing gloves is sufficient.



Protective Apron

Environmental Exposure Controls

: Not established.

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9. Physical And Chemical Properties

Appearance	- Physical state	: liquid
	- Color	: Clear
Odor		: None
pH		: About 8-10
Boiling Point / Boiling Range		: Not available.
Melting Point / Melting Range		: Not available.
Flash Point		: Not detected until 100°C (closed cup, ASTM D3278)
Relative density		: 1.00-1.10 (20°C)
Solubility		: Not available.
Water solubility		: Complete
Viscosity		: About 0.8-1.2 mPa · s (20°C)
VOC		: 1.0 g/l

10. Stability And Reactivity

Conditions To Avoid	: High and freezing temperatures.
Stability	: Stable under temperature.
Materials To Avoid	: Oxidizers and explosives
Hazardous Reactions/	: None
Decomposition Products	

11. Toxicological Information

Acute Toxicity	Oral LD ₅₀	Dermal LD ₅₀	Inhalant LC ₅₀
	No data available.	No data available.	No data available.
Eye Irritation	: No data available.		
Skin Irritation	: No data available.		
Sensitization	: No data available.		
Mutagenicity	: None known.		
Carcinogenicity	: None known.		

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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 doesn't flow directly to ground, the river, and the drain ditch.
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.
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 Information

	Check a thing without a leak in a container. Perform prevention of collapse of cargo surely.
Us Department of Transportation (DOT)	
Hazardous Materials	: Not Applicable
Sea Transport (IMDG)	
Class	: Not Applicable
Packing Group (PG)	: Not Applicable
UN Number	: Not Applicable
Proper Shipping Name	: Not Applicable
Marine Pollutant	: Not Applicable

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Air Transport (ICAO/IATA)

Class : Not Applicable
Packing Group(PG) : Not Applicable
UN Number : Not Applicable
Proper Shipping Name : Not Applicable

15. Regulatory Information

TSCA Section 4(a) Final : Not regulated.
Test Rules Regulated
TSCA Section 8(a) : Not regulated.
Preliminary Assessment
Information Rule(PAIR)
TSCA Section12(b) : Not regulated.
One-Time Export
Notification Regulated
California Proposition 65 : Not regulated.

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 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	2012/09/10	First issue.
2.0	2013/03/25	Revised
3.0	2016/01/14	Revised : add to Order No. FL003-Z-22 / FL003-Z-2L