

## Material Safety Data Sheets

### 1. Product and Company Identification

Product Name : Flushing Liquid 01  
Product Code : FL001-Z-22-1  
General Use : Cleaning solution for ink jet printer  
Product Description : Aqueous liquid  
MSDS Number : 031-37C120C  
Manufacture  
Company Name : Mimaki Engineering Co., Ltd  
Address : 2182-3 Otsu, Shigeno, 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. : +81-268-64-2413

### 2. Hazards Identification

[GHS Classification]

Physical Hazards

Out of classification or No classification

Health Hazards

Skin Corrosion / Irritation : Category 2

Environmental Hazards

Out of classification or No classification

[GHS Label Elements]

Symbol



Signal Word

Warning

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### Hazard Statements

H315 Causes skin irritation.

### Precautionary Statements

[Prevention]

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P321 Specific treatment.

P332 + P313 If skin irritation occurs: Get medical advice/attention

P362 Take off contaminated clothing and wash before reuse.

### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Diethylene glycol derivative	50-70	Trade Secret	Trade Secret
2	Alcohol derivative	5-20	Trade Secret	Trade Secret
3	Water	20-40	7732-18-5	H <sub>2</sub> O

OSHA Hazardous : This material is considered hazardous.

Components

(29 CFR 1910. 1200)

### 4. First Aid Measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, start artificial respiration at once. Get immediate medical attention.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get immediate medical attention.

Skin Contact : Wash skin with soap and water for at least 15 minutes while

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removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

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

### 5. Fire Fighting Measures

See Section 9 for Flammability Properties

NFPA Ratings : Health: 1 Fire: 1 Reactivity: 0  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate  
3 = Serious 4 = Severe

Flammable Properties : This product is not a fire hazard, but may burn. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Extinguishing Media : regular dry chemical, carbon dioxide, water spray, foam

Fire Fighting Instructions : Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

### 6. Accidental Release Measures

Occupational spill/release : Wear personal protective clothing and equipment, see Section 8. Collect spilled material in appropriate container for disposal. Keep unnecessary people away, isolate hazard area and deny entry. Avoid creation of vapor or mist.

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### 7. Handling and Storage

Handling	: Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling.
Storage	: Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Keep away from incompatible materials.

### 8. Exposure Controls / Personal Protection

#### Exposure Limit Values

There are no exposure limit values for any of this product's components.

#### Exposure Controls

##### Occupational Exposure Controls

Engineering Controls : Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits

##### Personal Protection

Respiratory Protection : Any chemical cartridge respirator with organic vapor cartridge(s).

##### Hand Protection

Hand Protection : Wear appropriate chemical resistant gloves.

Eye Protection : Wear splash resistant safety goggles with a faceshield.

Skin Protection : Wear appropriate chemical resistant clothing.

### 9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: Transparency
Odor		: faint
pH		: 8
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Flash Point		: None
Density		: 0.980±0.01(20°C)
Water Solubility		: soluble

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Viscosity : 6 mP · s  
Vapor Density : Not available  
VOC : 70%

### 10. Stability and Reactivity

Conditions to Avoid : Avoid contact with incompatible materials.  
Stability : Stable at standard temperatures and pressure.  
Materials to Avoid : halogens, oxidizing materials  
Hazardous Reactions / Decomposition Products : No reactivity hazard is expected. Hazardous polymerization will not occur.  
Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

### 11. Toxicological Information

Acute Toxicity	:	Oral LD50	Dermal LD50
		Water	>90 mL/kg(rat)
		Diethylene glycol derivative	4970 mg/kg(rat)
		Alcohol derivative	14850 mg/kg (mouse) 20mL/kg(rabbit)
Irritation	:	eye irritation, skin irritation, respiratory tract irritation	
Medical Conditions	:	respiratory disorders	
Aggravated by Exposure	:		

### 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 : Components of this product are hazardous to aquatic life

### 13. Disposal Considerations

Disposal Methods : Dispose in accordance with all applicable regulations.  
Do not dump this product into sewers, on the ground or into any body

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Component Waste : of water.  
 Numbers : The U.S. EPA has not published waste numbers for this product's components.

### 14. Transport Information

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

US DOT Information : Not regulated  
 TDG Information : Not regulated  
 UN Number : Not regulated

### 15. Regulatory Information

#### U.S. Federal Regulations

: None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312 : Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No  
 Reactive: No

HMIS Ratings : Health: 1\* Fire: 1 Reactivity: 0  
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate  
 3 = Serious 4 = Severe \* = Chronic hazard

#### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Alcohol derivative	Trade Secre	No	No	No	No	Yes

### 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



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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	2012/04/03	First issue
2.0	2016/08/08	Section9 : Change the value of the density