

Product Name: Flushing liquid 12 / Maintenance Liquid 12 Maintenance Kit

> SDS No. 037-C221385 First issue: 2016/04/19 Revised: 2019/12/05

### 1. Identification

Product Name : Flushing Liquid 12 / Washing Liquid 12 Maintenance Kit

Order No. : FL012-Z-22/ML012-Z-K1

Ink Ver. : 1

General Use : Cleaning solution for ink jet printer

Product Description : Aqueous liquid SDS Number : 037-C221385

Manufacture

Company Name : Mimaki Engineering Co., Ltd.

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Telephone No. : +81-268-64-2413

Importer / Distributor Established in USA

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U.S.A.

Telephone No. : +1-678-730-0170

Emergency Telephone No. : +1 866 928 0789 (within United States only, Toll free)

+1 215 207 0061

#### 2. Hazards Identification

[HCS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity – Oral : Not classified
Acute Toxicity – Dermal : Not classified
Skin Corrosion / Irritation : Not classified
Eye Damage / Irritation : Category 2A
Sensitization – Skin : Category 1

The above list does not include category being non-classifiable or not-applicable.

[HCS Label Elements]



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Symbol



Signal Word Warning

**Hazard Statements** 

H317 May cause an allergic skin reaction

H319 Cause serious eye irritation

# **Precautionary Statements**

[Prevention]

P261 Avoid breathing gas/mist/vapors.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

[Response]

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

[Disposal]

P501 Dispose of contents/container in accordance with

local/regional/national/international regulation (to be specified).

NFPA Rating (scale 0-4)

Health = 2

Flammability = 1

Instability = 0

Special =



### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	70-85	7732-18-5
2	Propanol, 1(or 2)-(2-methoxymethylethoxy)-	5-15	34590-94-8
3	1,2-Propylene glycol	5-15	57-55-6



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4 Other 0.5-1.5 Trade Secret

#### 4. First Aid Measures

Inhalation : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing. Get immediate medical attention.

Skin Contact : Wash with plenty of soap and water. If skin irritation or rash occurs:

: Treat symptomatically and supportively.

Get medical advice/attention. Take off contaminated clothing and

wash before re-use.

Ingestion : If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute : eye irritation, allergic skin reaction, mild skin irritation

Delayed : allergic skin reaction.

Indication of Immediate

Medical Attention and Special Treatment

Needed, If Needed

### 5. Fire Fighting Measures

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

Unsuitable Extinguishing : Do not scatter spilled material with high-pressure water streams.

Media

Special Hazards Arising : Negligible fire hazard.

from the Chemical

Hazardous Combustion : Combustion: oxides of carbon

Products

Fire Fighting Measures : Move container from fire area if it can be done without risk.

Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or

combustion by-products.



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Special Protective : Wear full protective fire fighting gear including self contained

Equipment and breathing apparatus (SCBA) for protection against possible exposure.

Precautions for

Firefighters

#### 6. Accidental Release Measures

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

Protective Equipment Avoid release to the environment.

and Emergency

Procedures

Methods and Materials :

for Containment and

Cleaning Up

: Eliminate all ignition sources if safe to do so.

Stop leak if possible without personal risk. Reduce vapors with

water spray.

Small spills: Absorb with sand or other non-combustible material.

Collect spilled material in appropriate container for disposal.

Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low

areas.

# 7. Handling and Storage

Precautions for Safe : Avoid breathing dust, mist, fumes or vapors.

Handling Avoid contact with eyes, skin and clothing. Do not eat, drink, or

smoke when using this product.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the

workplace.

Conditions for Safe

Storage, including any

: Store and handle in accordance with all current regulations and

standards.

Incompatibilities Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Keep separated from incompatible substances.



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## 8. Exposure Controls / Personal Protection

# **Exposure Limit Values**

No	Chemical Name		TWA
1	Propanol, 1(or 2)-(2-methoxymethylethoxy)- Cas No.34590-94-8	ACGIH	TLV-TWA : 100ppm TLV-STEL : 150ppm

**Exposure Controls** 

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system.

Engineering Controls Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Respiratory Protection : Consult with a health and safety professional for specific respirators

appropriate for your use.

Glove : Wear appropriate chemical resistant gloves.

Recommendations

Gloves

Vapor Respirator

Eye /Face : Wear splash resistant safety goggles with a faceshield. Provide an

Protection emergency eye wash fountain and quick drench shower in the

immediate work area.

Safety Glasses

Skin Protection : Wear appropriate chemical resistant clothing.

Protective Apron

**Environmental Exposure Controls** 

: Not available



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# 9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : Clear

Odor : Slight solvent odor

pH :9∼10

Boiling Point / Boiling Range : Not available : Not available Melting Point / Melting Range : Not available Decomposition Temperature Flash Point : Not flammable Auto ignition temperature : Not available Flammability (Solid, Gas) : Not available : Not available **Explosive Properties** : Not available Oxidizing Properties : Not available Upper / Lower Flammability or

**Explosive Limits** 

Vapor Pressure : Not available Specific Gravity :  $1\sim 1.1(25^{\circ}\text{C})$  : Not available Water Solubility : Not available Partition Coefficient (n-octanol / Water) : Not available Viscosity :  $\leq 5 \text{ mPa} \cdot \text{s}(25^{\circ}\text{C})$ 

Vapor Density : Not available
Evaporation Rate : Not available
VOC : Not available

### 10. Stability and Reactivity

Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable under normal conditions of use.

Possibility of Hazardous : Will not polymerize.

Reactions

Conditions to Avoid : Avoid contact with incompatible materials.

Incompatible Materials : Acid, oxidizable compound



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Hazardous : Combustion: oxides of carbon.

Decomposition

### 11. Toxicological Information

**Acute Toxicity** 

	Oral (rat)	Dermal (rabbit)		
Product	ATEmix=37,861mg/kg	ATEmix=49,850mg/kg		

Information on Likely Routes of Exposure

Inhalation : irritation, difficulty breathing.
Ingestion : nausea, vomiting, stomach pain.

Skin Contact : allergic reactions, irritation.

Eye Contact : irritation.

Immediate Effects : allergic skin reaction, mild skin irritation.

Delayed Effects : allergic skin reaction.

Medical Conditions : No information available for the product.

Aggravated by

Exposure

Irritation/Corrosivity : mild skin irritation.

Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : May cause an allergic skin reaction.

Germ Cell : No information available for the product.

Mutagenicity

Carcinogenicity : No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for

the component(s) of this product.

Reproductive Toxicity : No information available for the product.

Specific Target Organ : No target organs identified.

Toxicity - Single

Exposure

Specific Target Organ : No target organs identified.

Toxicity - Repeated

Exposure

Aspiration Hazard : Not expected to be an aspiration hazard.



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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.

Component Analysis - : No LOLI ecotoxicity data are available for the component(s) of this

Aquatic Toxicity product.

Persistence and : No information available for the product.

Degradability

Bioaccumulation : No information available for the product.

Mobility : No information available for the product.

Other Toxicity : No additional information is available.

### 13. Disposal Considerations

Disposal Methods : Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body

of water.

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

Numbers components.

Disposal of : Empty containers may contain product residue. Dispose in

Contaminated accordance with all applicable regulations.

Packaging

## 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

US DOT Information : Not regulated as a hazardous material for transport.

TDG Information : Not regulated as dangerous goods for transport.

Marine Pollutant : No component(s) of this material is specifically listed in the IMDG

Code as an identified marine pollutant.



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### 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 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

OSHA Status : Propanol, 1(or 2)-(2-methoxymethylethoxy)- is hazardous under 29

CFR 1910. 1200. (CAS No. 34590-94-8)

TSCA Section 8(a) : Ingredient: Propanol, 1(or 2)-(2-methoxymethylethoxy)- (CAS#

Preliminary Assessment 34590-94-8)

Information Rule (PAIR) Reference: 60FR34879 (The reporting date, 10/3/1995 has passed.)

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

(40 CFR 370) Reactivity: No

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
1,2-Propylene glycol	57-55-6	No	No	Yes	Yes	Yes

California Proposition 65 : Not listed under California Proposition 65

### 16. Other Information

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code - International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; LOLI - List Of LIsts<sup>TM</sup> - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit



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## Other Information

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