

SDS No. 037-C195935 First issue: 2021/01/13

Revised:

Safety Data Sheets

1. Identification

Product Name : Maintenance Liquid 03
Order No. : ML003-Z-BA / ML003-Z-K1

Ink Ver. :1

General Use : Maintenance liquid of ink

Product Description : Aqueous liquid SDS Number : 037-C195935

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 NE, suite A, Suwanee, Georgia 30024,

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

Sensitization – Skin : Category 1

Environmental Hazards

Hazardous to the Aquatic : Not classified

Environment - Acute Hazard

Hazardous to the Aquatic : Not classified

Environment - Long Term Hazard

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.

Precautionary Statements

[Prevention]

P261 Avoid breathing gas/mist/vapors.

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.

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

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

[Storage]

None needed according to classification criteria.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation(to be specified).

NFPA Rating (scale 0-4)

Health = 2

Flammability = 1

Instability = 0

Special =



CANADIAN WHMIS SYMBOLS: D2B



3. Composition / Information on Ingredients

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



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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:

Get medical advice/attention. Take off contaminated clothing and

wash before re-use.

Ingestion : If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute : allergic skin reaction, mild skin irritation

Delayed : allergic skin reaction.

Indication of Immediate

: Treat symptomatically and supportively.

Medical Attention and Special Treatment Needed, If Needed

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.

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

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

Precautions for



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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

Cleaning Up

Methods and Materials

: Eliminate all ignition sources if safe to do so.

for Containment and

Stop leak if possible without personal risk. Reduce vapors with

water spray.

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

: Store and handle in accordance with all current regulations and

Storage, including any

standards.

Incompatibilities

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

Keep cool. Keep separated from incompatible substances.

8. Exposure Controls / Personal Protection

Exposure Limit Values ACGIH, OSHA, and NIOSH have not developed exposure limits for

any of this product's components.

Component Biological : There are no biological limit values for the component(s) of this



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Limit Values product.

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.

Vapor Respirator

Glove : Wear appropriate chemical resistant gloves.

Recommendations

Gloves

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.



Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : clear

Odor : slight odor

pH : 8-10

Boiling Point / Boiling Range : Not available
Melting Point / Melting Range : Not available
Decomposition Temperature : Not available



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: Not flammable Flash Point Auto ignition temperature : Not available Flammability (Solid, Gas) : Not applicable : Not available **Explosive Properties** : Not available Oxidizing Properties : Not available Upper / Lower Flammability or

Explosive Limits

Vapor Density

Vapor Pressure : Not available

Relative Density : Approx 1.0 (25 °C)

Water Solubility : Complete

Partition Coefficient (n-octanol / Water) : Not available

Viscosity $: <5 \text{mPa·s} (25 ^{\circ}\text{C})$: Not available

Evaporation Rate : Not available

VOC : 1.0g/L

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.

: oxidizing materials. **Incompatible Materials**

: Combustion: oxides of carbon. Hazardous

Decomposition

11. Toxicological Information

Acute Toxicity

Component Analysis -: The component(s) of this material have been reviewed in various

LD50/LC50 sources and no selected endpoints have been identified.

Information on Likely Routes of Exposure

Inhalation : irritation, difficulty breathing. Ingestion : nausea, vomiting, stomach pain. Skin Contact : allergic reactions, irritation.



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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

Component 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.

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.



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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.

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

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.

15. Regulatory Information

SARA 311/312

U.S. Federal : None of this products components are listed under SARA Sections

302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR Regulations

370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4),

TSCA 12(b), or require an OSHA process safety plan.

Health: Health

Yes No No No No

Fire

Pressure

U.S. State Regulations : None of this product's components are listed on the state lists from

Chronic

CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65.

: WHMIS CLASSIFICATION: D2B. Canada

Acute

Reactive



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Canadian WHMIS Ingredient Disclosure List (IDL)

: None of the product component(s) are listed on the Ingredients Disclosure List (IDL).

Chemical Inventory Listings

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Water	7732-18-5	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Proprietary organic	Trade Secret	Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	Yes
materials										

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 LIstsTM - 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

Other Information

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