

SDS No. 037-C275913 First issue: 2021/01/12 Revised:2021/10/12

Safety Data Sheets

1. Identification

Product Name : Maintenance Liquid 15

Order No. : ML015-Z-44 / ML015-Z-B1 / ML015-Z-K1 / ML015-Z-K2

Ink Ver. : 1

General Use : Cleaning solution for ink jet printer

Product Description : Solvent liquid SDS Number : 037-C275913

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

[GHS Classification]

Physical Hazards

Flammable Liquid : Not classified

Health Hazards

Eye Damage / Irritation : Category 2A Specific Target Organ Toxicity : Category 3

(Single Exposure)

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.



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[GHS Label Elements] Symbol



Signal Word Warning

Hazard Statements

H319 Cause serious eye irritation

H336 May cause drowsiness and dizziness.

Precautionary Statements

[Prevention]

P261 Avoid breathing gas/mist.

P264 Wash hands and eyes thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

[Response]

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

[Strage]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

[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 = None



CANADIAN WHMIS SYMBOLS: D2B





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Chemical Name	Wt%	CAS No.
Diethylene glycol monoethyl ether acetate	90-100	112-15-2

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

4. First Aid Measures

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

a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact : Wash with plenty of soap and water. If skin irritation occurs, get

medical advice/attention.

Eye Contact : Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

Ingestion : If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute : eye irritation

Delayed : No information on significant adverse effects.

Indication of Immediate

 $: Treat\ symptomatically\ and\ supportively.$

Medical Attention and Special Treatment Needed, If Needed

5. Fire Fighting Measures

Flammable Properties : Flash pint 99.4°C

Explosive Limits: 0.9-19.4 vol%

Extinguishing Media : carbon dioxide, regular dry chemical, water spray, alcohol resistant

foam

Unsuitable Extinguishing : None known.

Media

Special Hazards Arising : Slight fire hazard.

from the Chemical

Hazardous Combustion : oxides of carbon

Products

Fire Fighting : Move container from fire area if it can be done without risk. Do not



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Measures scatter spilled material with high-pressure water streams. Cool

containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products. Stay upwind and

keep out of low areas.

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

Equipment and breathing apparatus (SCBA) for protection against possible

Precautions for exposure.

Firefighters

6. Accidental Release Measures

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

Protective Equipment Avoid release to the environment.

Procedures

and Emergency

Methods and Materials : Stop leak if possible without personal risk. Reduce vapors with

for Containment and water spray.

Cleaning Up 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 vapor or mist. Avoid contact with eyes, skin and

Handling clothing. Do not eat, drink, or smoke when using this product. Wear

protective eye/face protection. Wash thoroughly after handling. Avoid

release to the environment.

Conditions for Safe : Store and handle in accordance with all current regulations and

Storage, including any standards. Store in a well-ventilated place. Keep container tightly

Incompatibilities closed. Store locked up. Keep away from incompatible materials.

8. Exposure Controls / Personal Protection

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



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any of this product's components.

Component Biological

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

Limit Values

product.

Exposure Controls

Occupational Exposure Controls

Appropriate : Prov

: Provide local exhaust or process enclosure ventilation system. Ensure

Engineering Controls compliance with applicable exposure limits.

Personal Protection

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

Protection appropriate for your use.

Vapor Respirator

Hand Protection : Wear appropriate chemical resistant gloves.

Gloves

Eye Protection : Wear splash resistant safety glasses.

Safety Glasses

Skin Protection : Wear appropriate chemical resistant clothing.



9. Physical and Chemical Properties

Appearance - Physical State : Liquid

- Color : Clear

Odor : solvent odor
pH : Not Applicable
Melting point : Not Applicable

Boiling Point : 217.2 °C

Flash Point : 211 °F [Test Method:Closed Cup]



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Evaporation rate : No Data Available Flammability (solid, gas) : Not Applicable

 $Flammable \ Limits(LEL) \\ Flammable \ Limits(UEL) \\ \vdots \ 19.4 \%$

Vapor Pressure : 6.7 Pa [@ 20 °C]

Vapor Density :> 1 [Ref Std:AIR=1]

Density : 1.01 g/ml

Specific Gravity : 1.01 [Ref Std:WATER=1]

Solubility in Water : Complete

Solubility- non-water : No Data Available
Partition coefficient: n-octanol/ water : No Data Available

Autoignition temperature : 360 °C

Decomposition temperature : No Data Available
Viscosity : No Data Available
Molecular weight : No Data Available

Volatile Organic Compounds : 1010 g/l
Percent volatile : 100 %

VOC Less H2O & Exempt Solvents : 1010 g/l

10. Stability and Reactivity

Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable at standard temperatures and pressure.

Possibility of Hazardous : Hazardous polymerization will not occur.

Reactions

Conditions to Avoid : Avoid heat, flames, sparks and other sources of ignition.

Incompatible Materials : Strong oxidizing agents.

Hazardous : Combustion: oxides of carbon

Decomposition

11. Toxicological Information

Acute Toxicity : Component Analysis - LD50/LC50

Diethylene glycol monoethyl ether acetate (112-15-2)

Ingestion Rat LD50 11,000 mg/kg Dermal Rabbit LD50 15,000 mg/kg



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Information on Toxicological effects

Inhalation : May cause additional health effects (see Specific Target Organ Toxicity

- Single Exposure).

Ingestion : Gastrointestinal Irritation: Signs/symptoms may include abdominal

pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see Specific Target Organ Toxicity

- Single Exposure).

Skin Contact : Contact with the skin during product use is not expected to result in

significant irritation.

Eye Contact : Severe Eye Irritation: Signs/symptoms may include significant

redness, swelling, pain, tearing, cloudy appearance of the cornea, and

impaired vision.

Contact with the eyes during product use is not expected to result in

significant irritation.

Immediate Effects : eye irritation

Delayed Effects : No information on significant adverse effects.

Medical Conditions : No information available for the product.

Aggravated by Exposure

Irritation/Corrosivity : Causes eye irritation

Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : No information available for the product.

Germ Cell Mutagenicity : No information available for the product.

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 : Central Nervous System (CNS) Depression: Signs/symptoms may

Toxicity - Single include headache, dizziness, drowsiness, incoordination, nausea,

Exposure slowed reaction time, slurred speech, giddiness, and unconsciousness.

Specific Target Organ : No target organs identified.

Toxicity - Repeated

Exposure

Aspiration Hazard : Not expected to be an aspiration hazard.

12. Ecological Information



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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 information available for the product.

13. Disposal Considerations

Comply with all USA, national and local regulations.

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

Disposal Methods : Dispose of contents/ container in accordance with the

local/regional/national/international regulations.

EPA Hazardous Waste

: Not regulated.

Number (RCRA)

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.
 IATA Information
 Not regulated as dangerous goods for transport.
 ICAO Information
 Not regulated as dangerous goods for transport.
 IMDG 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



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

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 TitleIII : Acute Health: Yes, Chronic Health: No, Fire: No, Pressure: No,

Section 311/312 Reactive: No

EPCRA 311/312 Hazard : Physical Hazards; Not applicable

Classifications (effective Health Hazards; Serious eye damage or eye irritation, Specific target

January 1, 2018) organ toxicity (single or repeated exposure)

Section 313 Toxic : Diethylene glycol monoethyl ether acetate (112-15-2)

90-100% Chemicals subject to the

reporting requirements of that section and 40 CFR part 372 (EPCRA)

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

CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canada : WHMIS CLASSIFICATION: D2B.

Canadian WHMIS : None of the product component(s) are listed on the Ingredients

Ingredient Disclosure Disclosure List (IDL).

List (IDL)

Chemical Inventory : Component Analysis - Inventory

Listings

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Diethylene glycol monoethyl ether acetate (112-15-2)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

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



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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; 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

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