

SDS No. 037-C264867 First issue: 2019/07/12

Revised:

Safety Data Sheets

1. Identification

Product Name : PR-200 Maintenance Liquid
Order No. : ML013-Z-B2/ ML013-Z-K2

General Use : Cleaning solution for ink jet printer

Product Description : Solvent liquid SDS Number : 037-C264867

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. : +1-678-730-0170

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

Emergency Telephone No. : +1-215-207-0061

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquid : Not classified

Pyrophoric Liquid : Not classified

Health Hazards

Acute Toxicity - Oral : Category 4

Toxic to Reproduction : Category 2

Specific Target Organ Toxicity : Category 1 (liver, kidneys)

(Repeated Exposure)

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

[GHS Label Elements]



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Symbol





Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure (liver, kidneys).

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's Operation Manual before use

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe gas/mist.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

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

[Response]

P308+P313 IF exposed or concerned: Get medical advice/attention.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rince mouth.

[Storage]

P405 Store locked up.

[Disposal]

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

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.		
1	Diethylene glycol	90-100	111-46-6		

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. Take off contaminated clothing



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and wash before re-use. Get medical attention if irritation develops.

Ingestion : If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute : No data available.

Delayed : reproductive effects, liver disorders, kidney disorders

Indication of Immediate

: Treat symptomatically and supportively.

Medical Attention and Special Treatment

Needed. If Needed

5. Fire Fighting Measures

Flammable Properties : Flash pint 124°C

Explosive Limits: 1.6 - 10.8 vol%

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

foam

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

Media

Special Hazards Arising : Slight fire hazard.

from the Chemical

Hazardous Combustion : No data available.

Products

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

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



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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

: 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

Handling

: Obtain SDS (Safety Data Sheet) and printer's Operation Manual before use. Do not handle until all safety precautions have been read

and understood. Do not breathe gas/mist. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

Wear protective gloves/clothing and eye/face protection.

Conditions for Safe

Storage, including any

Incompatibilities

: Store locked up.

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

Limit Values

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

product.

Exposure Controls

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system. Ensure



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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 : slight odor pH : Not available

Boiling Point / Boiling Range $: 244^{\circ}\text{C}$ Flash Point $: 124^{\circ}\text{C}$

Upper / Lower Flammability or : LEL 1.6 vol.% UEL 10.8 vol. %

Explosive Limits

Vapor Pressure : 0.0057mmHg(25°C) [Converted value

0.76Pa(25°C)] :HSDB(2003)

Vapor density : 3.66; Verschueren (4th, 2001)

Specific Gravity : 1.12(20°C): Verschueren (4th, 2001)

Solubility : Soluble in ethyl alcohol, acetone, and ether.

Insoluble in benzene and carbon tetrachloride



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Chapman Ver 16:1(2008)

Partition Coefficient (n-octanol / Water) : LogPow=-1.47:SRC (access on June 2008)

Auto-ignition temperature : Not available

Decomposition temperature : Not available

10. Stability and Reactivity

Reactivity : Concerning incompatibility: see below "Conditions to avoid" and

"Incompatible materials"

Chemical Stability : Stable at standard temperatures and pressure.

Possibility of Hazardous : Hazardous polymerization will not occur.

Reactions

Conditions to Avoid : Avoid heat, flames.

Incompatible Materials : Oxidizers

Hazardous : No data available

Decomposition

11. Toxicological Information

Acute Toxicity

Exposure route	Endpoint	Value	Species	Source	
Oral	LD50	12565 mg/kg	Rat	NLM_CIP	
Dermal	Dermal LD50 11890 mg/kg		Rabbit	NLM_CIP	
Inhalation	Inhalation LC50 >		Rat	NICNAS	

Information on Likely Routes of Exposure

Skin corrosion/irritation : Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye : Shall not be classified as seriously damaging to the eye or eye irritant.

irritation

Respiratory or skin : Shall not be classified as a respiratory or skin sensitization.

sensitisation

Germ Cell Mutagenicity : Shall not be classified as a germ cell mutagenicity

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

the component(s) of this product.

Reproductive Toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ : Shall not be classified as a specific target organ toxicant (single



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toxicity - single exposure exposure).

Specific target organ : Causes damage to organs (liver, kidneys) through prolonged or

toxicity - repeated repeated exposure.

exposure

Aspiration Hazard : Shall not be classified as presenting 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.

Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure	
				time	
LC50	75,200mg/L	fathead minnow	ECHA	96h	
		(Pimephales promelas)			
EC50	>10,000mg/L	daphnia magna		48 h	

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure
				time
EC50 >10,000mg/L		aquatic invertebrates	ECHA	24h

Persistence and : Not available

Degradability

Bioaccumulation : Not available
Mobility : Not available
Other Toxicity : Not available

13. Disposal Considerations

 $: Comply \ with \ national \ and \ local \ regulations.$

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

of water.

Disposal Methods : Dispose in accordance with all applicable regulations.



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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 InformationNot regulated as dangerous goods for transport.ICAO InformationNot regulated as dangerous goods for transport.

IMDG Information : Not regulated as dangerous goods for transport.

International Bulk : This material does not contain any chemicals required by the IBC

Chemical Code Code to be identified as dangerous chemicals in bulk.

15. Regulatory Information

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 Title III : Acute Health: Yes

Section 311/312 Chronic Health: Yes

Fire: No

Pressure: No Reactive: No

U.S. State Regulations : The following components appear on one or more of the following

state hazardous substances lists

Component	CA	MA	MN	NJ	PA
Diethylene glycol	Ma	No	Yes	No	Yes
(CAS No. 111-46-6)	No				

: Not regulated under California Proposition 65

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

Ingredient Disclosure Disclosure List (IDL).



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List (IDL)

Chemical Inventory : Component Analysis - Inventory

Listings

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Diethylene glycol	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
(CAS No. 111-46-6)	res	DSL	EII	ies	ies	ies	ies	ies	ies

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; 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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