

Safety Data Sheet

1. IDENTIFICATION

Product Identifier	:	Maintenance Liquid 14
Product code	:	ML014-Z-BA / ML014-Z-K1 / ML014-Z-22 / ML014-Z-1L
Recommended use and restriction use	:	Maintenance Liquid for ink jet printer
Supplier name	:	MIMAKI ENGINEERING CO., LTD.
Address	:	2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone number	:	+81-268-64-2413
Importer / Distributor name	:	MIMAKI SINGAPORE PTE. LTD.
Address	:	31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03
Telephone number	:	+65-6508-2789
Emergency telephone number	:	+65 3165 2217 (within Singapore only) +65 3158 1074

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Health hazards	:	Serious eye damage/eye irritation Category 2A Specific target organ toxicity (single exposure) Category 3 (narcotic effect respiratory tract irritation)
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GHS LABEL ELEMENTS

Pictograms	:	
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Signal Word	:	Warning
Hazard Statements	:	H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness

Precautionary Statements

Prevention	:	Avoid breathing mist, vapours and spray.(P261) Wash thoroughly after handling.(P264) Use only outdoors or in a well-ventilated area(P271) Wear eye protection and face protection.(P280)
Response	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing(P305+P351+P338) Call a POISON CENTER/doctor. If you feel unwell.(P312) If eye irritation persists: Get medical advice/attention(P337+P313)
Storage	:	Store in a well-ventilated place. Keep container tightly closed.(P403+P233) Store locked up(P405)

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Disposal : Dispose of waste in accordance with local, state and federal regulations. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures : Mixtures

Chemical name	Contents	CAS RN
Diethylene glycol diethyl ether	35-45%	112-36-7
Dipropylene glycol monomethyl ether	35-45%	34590-94-8
Triethylene glycol monomethyl ether	15-25%	112-35-6

4. FIRST-AID MEASURES

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Take off contaminated clothing and wash before re-use. Get medical attention if symptoms occur.

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. IF exposed or concerned: Get medical advice and attention.

Ingestion : Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. IF exposed or concerned: Get medical advice and attention.

5. FIRE-FIGHTING MEASURES

Suitable fire-extinguishing media : Dry chemicals, CO₂, fog, alcohol-resistant foam or sand.

Not suitable extinguishing media : Cylindric water.

Specific hazards arising from the chemical : Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.

Special protective actions for fire fighters : Use goggles in combination with dust mask, and other protections as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Put on appropriate personal protective equipment. Large spills : Evacuate area. Ensure adequate ventilation.

Environmental precautions : Collect spillage. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up : Small spill : absorb with material such as non-combustible material wash thoroughly after handling.
Large spills: Dike spills and dispose of in safe area.

Prevention Measures for Secondary : Keep away from sources of ignition and prepare extinguishing media.

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Accidents : Risk of slipping. Spilled material forms slippery floor. Do not recklessly walk on the spillage.

7. HANDLING AND STORAGE

Handling

Technical measures : Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Safe handling advice : Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapours/spray. Obtain special instructions before use.

Storage

Suitable storage conditions : Store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

	ACGIH (TLV)	OSHA (PEL)	Workplace Safety And Health (General Provisions) Regulations
Dipropylene glycol monomethyl ether	TWA 100 ppm, STEL 150 ppm (Skin)	Not established	Not established

Engineering measures : Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use explosion-proof electrical equipment and prevent from static electricity.

Individual protection measures

Respiratory protection : If necessary, wear respiratory protection.

Hand protection : Wear protective gloves.

Eye protection : Wear eye protection/face protection.

Skin and body protection : Wear protective clothing.

Hygiene measures : Wash hand thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State : Liquid

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Color	: Clear
Odor	: Solvent odor
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Boiling point	: No data available
Flash point	: 76°C (Cleveland Open Cup)
Evaporation rate	: No data available
Flammability(Solid, Gas)	: Combustible
Flammability or explosive limits	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: No data available
Solubility(ies)	: Water soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

10. STABILITY AND REACTIVITY

Reactivity	: Stable under normal conditions of use.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: No information available.
Conditions to avoid	: Nothing under normal conditions of use.
Incompatible materials	: Oxidizing substances, Organic peroxides.
Hazardous decomposition products	: Will not disassemble. Generates toxic gases on burning.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)	: Unable to classify due to insufficient data.
Acute toxicity (Dermal)	: Unable to classify due to insufficient data.
Acute toxicity (Inhalation : Gases)	: Does not fall under gas based on GHS definitions.
Acute toxicity (Inhalation : Vapours)	: Unable to classify due to insufficient data.
Acute toxicity (Inhalation : dust/mist)	: Unable to classify due to insufficient data.
Skin corrosion/ Irritation	: Unable to classify due to insufficient data.
Serious eye damage/ irritation	: Category 2A.
Respiratory Sensitization	: Unable to classify due to insufficient data.
Skin Sensitization	: Unable to classify due to insufficient data.
Germ cell mutagenicity	: Unable to classify due to insufficient data.
Carcinogenicity	: Unable to classify due to insufficient data.
Reproductive toxicity	: Unable to classify due to insufficient data.
Reproductive toxicity, effects on or via	: Unable to classify due to insufficient data.

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lactation

Specific target organ toxicity – Single Exposure : Category 3 (narcotic effect respiratory tract irritation)

Exposure

Specific target organ toxicity – Repeated Exposure : Unable to classify due to insufficient data.

Repeated Exposure

Aspiration hazard : Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment – Acute Toxicity : Unable to classify due to insufficient data.

Acute Toxicity

Hazardous to the Aquatic Environment – Chronic Toxicity : Unable to classify due to insufficient data.

Chronic Toxicity

Hazardous to the Ozone layer : Unable to classify due to insufficient data.

13. DISPOSAL CONSIDERATIONS

Residual Waste : Disposal should be in accordance with applicable regional, national and local laws and regulations. Passed to a licensed waste contractor.

Contaminated Container and Packaging : Disposal should be in accordance with applicable regional, national and local laws and regulations. Passed to a licensed waste contractor. In case of disposal of empty containers, remove the content thoroughly.

14. TRANSPORT INFORMATION

International regulations

Sea(IMDG) : Not dangerous goods

Air(IATA) : Not dangerous goods

15. REGULATORY INFORMATION

No main regulation

16. OTHER INFORMATION

Literature References : SDS of raw material
National Institute of Technology and Evaluation (NITE) GHS
Classifications List
Regulation (EC) 1272/2008 Annex VI
Regulation (EC) 1907/2006 registered substancesOther data : The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide.
The accuracy of the information and recommendations suggested



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