

Safety Data Sheet

1. IDENTIFICATION

Product Identifier	Maintenance Liquid 16
Product code	ML016-Z-B2 / ML016-Z-K1
Recommended use and restriction use	Maintenance liquid for inkjet printers
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 2 Specific target organ toxicity (repeated exposure) Category 2 (liver kidney)
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GHS LABEL ELEMENTS

Pictograms



Signal Word	Warning
Hazard Statements	H319 Causes serious eye irritation H373 May cause damage to organs(liver,kidney) through prolonged or repeated exposure
Precautionary Statements	
Prevention	Do not breathe mist, vapours and spray.(P260) Wash thoroughly after handling.(P264) Wear eye protection and face protection.(P280)
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing(P305+P351+P338) Get medical advice/attention if you feel unwell(P314) If eye irritation persists: Get medical advice/attention(P337+P313)
Storage	None
Disposal	Dispose of waste in accordance with local,state and federal regulations.(P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	Substances
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Chemical name	Contents	Chemical Formula	CAS RN
3-methoxy-N,N-dimethylpropionamide	90-100%	Unknown	53185-52-7

4. FIRST-AID MEASURES

In case of inhalation	Call a doctor if you feel unwell.
In case of skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice and attention.
In case of eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
In case of ingestion	Rinse mouth. IF SWALLOWED: Call a doctor if you feel unwell.

5. FIRE-FIGHTING MEASURES

Suitable fire-extinguishing media	CO ₂ , dry chemical, dry sand, alcohol-resistant foam, and water fog.
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 another protections as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use goggles in combination with dust mask, and another protections as appropriate to situation. Large spills :Evacuate area. Ensure adequate ventilation.
Environmental precautions	Do not discharge into the drains, surface waters or ground water directly.
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 Accidents	Keep away from sources of ignition and prepare extinguishing media. 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	Wear eye protection/face protection. Do not breathe dust/fume/gas/mist/vapours/spray.

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Storage

Suitable storage conditions

Store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

If necessary, wear protective gloves.

Eye protection

If necessary, wear protective eye protection.

Skin and body protection

If necessary, wear protective clothing.

Hygiene measures

Wash hand thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State

Liquid

Color

Clear

Odor

No data available

Odor threshold

No data available

pH

No data available

Melting point

No data available

Boiling point

215°C

Flash point

99°C (ASTM D6450), 116°C (Cleveland open-cup)

Evaporation rate

No data available

Flammability(Solid,Gas)

Combustible

Flammability or explosive limits

LOWER LIMIT

1.1 vol%(120°C)

UPPER LIMIT

34.0 vol%(200°C)

Vapor pressure

75.5Pa (20°C)

Vapor density

No data available

Relative density

0.994 (20 °C)

Solubility(ies)

>500g/l (21.5 °C)

Partition coefficient: n-octanol/water

Log₁₀Pow < 0.3 (25°C)

Auto-ignition temperature

219°C

Decomposition temperature

No data available

Viscosity

2.3mPa·s(20°C)

10. STABILITY AND REACTIVITY

Reactivity

No information available.

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Chemical stability	The product is chemically stable.
Possibility of hazardous reactions	No decomposition if stored and applied as directed.
Conditions to avoid	No information available.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. Nitrogen oxides (NOX), Carbon monoxide, dioxide and unburned hydrocarbons (smoke).

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Acute toxicity (Dermal)	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Acute toxicity (Inhalation : Gases)	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Acute toxicity (Inhalation : Vapours)	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Acute toxicity (Inhalation : dust/mist)	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Skin corrosion/ Irritation	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Serious eye damage/ irritation	Category 2:53185-52-7 (source: Registered substances (ECHA))
Respiratory Sensitization	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Skin Sensitization	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Germ cell mutagenicity	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Carcinogenicity	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Reproductive toxicity	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Reproductive toxicity, effects on or via lactation	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Specific target organ Toxicity – Single Exposure	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Specific target organ toxicity – Repeated Exposure	Category 2:53185-52-7 (organ = liver, kidney, source: Registered substances (ECHA))
Aspiration hazard	Classification not possible:53185-52-7 (source: Registered substances (ECHA))

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12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment – Acute Toxicity	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Hazardous to the Aquatic Environment – Chronic Toxicity	Classification not possible:53185-52-7 (source: Registered substances (ECHA))
Hazardous to the Ozone layer	Classification not possible:53185-52-7 (source: Registered substances (ECHA))

13. DISPOSAL CONSIDERATIONS

Residual Waste	Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes. Dispose of waste in accordance with local, state and federal regulations.
Contaminated Container and Packaging	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

Component Analysis – Inventory

3-methoxy-N,N-dimethylpropionamide (53185-52-7)

TSCA – United States	ENCS – Japan	KECI Annex 1, 2 – Korea	DSL/NDSL – Canada	AICS – Australia	EINECS/ELINCS – European Union	TCSI – Taiwan	DIW – Thailand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Literature References	SDS of raw material NITE Website ECHA Website
Other 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 herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.