

Safety Data Sheet

1. IDENTIFICATION

Product Identifier	Maintenance Liquid 16
Product code	ML016-Z-B2 / ML016-Z-K1
Recommended use of the chemical and restrictions on use	Maintenance liquid for inkjet printers
Manufacturer	MIMAKI ENGINEERING CO., LTD. 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN +81-268-64-2413
Importer / Distributor	MIMAKI USA, INC. 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA 30542, U.S.A. +1-678-730-0170
Emergency Telephone No.	+1 866 928 0789 (within United States only, Toll free) +1 215 207 0061

2. HAZARDS IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200

Serious eye damage/eye irritation Category 2
Specific target organ toxicity (repeated exposure) Category 2 (liver kidney)

GHS Label Elements
Symbols



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

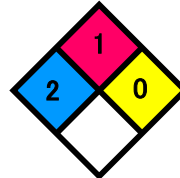
Dispose of waste in accordance with local,state and federal

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regulations.(P501)

NFPA Hazard Rating

Health	2
Flammability	1
Reactivity	0
Specific hazard	Not applicable



3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	Substances	
Chemical name	Contents	CAS number
3-methoxy-N,N-dimethylpropionamide	90-100%	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 extinguishing media	CO2, dry chemical, dry sand, alcohol-resistant foam, and water fog.
Unsuitable 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 equipment and precautions 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.

7. HANDLING AND STORAGE

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Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

Suitable storage conditions

Store in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

No data available

Appropriate engineering controls

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.

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

Specific Gravity (Density)

0.994 (20 °C)

Solubility

>500g/l (21.5 °C)

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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.
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))

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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))

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

IMDG	Not dangerous goods
IATA	Not dangerous goods
DOT	Not dangerous goods

15. REGULATORY INFORMATION

California Proposition 65	Not regulated under California Proposition 65
NFPA Hazard Rating	
Health	2
Flammability	1
Reactivity	0
Specific hazard	Not applicable

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

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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.