

# 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. 150 Satellite Boulevard NE, suite A, Suwanee, Georgia 30024, 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

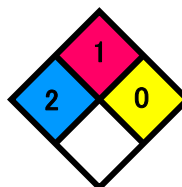
Disposal

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

# Safety Data Sheet

## 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	CO <sub>2</sub> , 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

Precautions for safe handling

# Safety Data Sheet

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)
Partition coefficient: n-octanol/water	Log <sub>10</sub> Pow < 0.3 (25°C)

# Safety Data Sheet

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))
Specific target organ toxicity – Single	Classification not possible:53185-52-7 (source: Registered substances

# Safety Data Sheet

exposure (ECHA)  
 Specific target organ toxicity – Category 2:53185-52-7 (organ = liver, kidney, source: Registered  
 Repeated exposure substances (ECHA))  
 Aspiration hazard Classification not possible:53185-52-7 (source: Registered substances  
 (ECHA))

## 12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment – Classification not possible:53185-52-7 (source: Registered substances  
 Acute Toxicity (ECHA))  
 Hazardous to the Aquatic Environment – Classification not possible:53185-52-7 (source: Registered substances  
 Chronic Toxicity (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/NDL – Canada	AICS – Australia	EINECS/ELIN CS – European Union	TCSI – Taiwan	DIW – Thailand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## 16. OTHER INFORMATION

## Safety Data Sheet

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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.