

Safety Data Sheet

Section 1 – Identification

Product identifier	Maintenance Liquid 11
Product code	ML011-Z-B2-2 / ML011-Z-K2-2
Ink Ver.	2
Recommended use of the chemical and restrictions on use	Maintenance liquid for inkjet printers
Details of manufacturer	MIMAKI ENGINEERING CO., LTD. 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN +81-268-64-2413
Details of Importer / Distributor	MIMAKI AUSTRALIA PTY LTD. Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia + 61-2-8036-4500
Emergency telephone number	+61 2 8014 4558 (within Australia only) 18000 74234 (within Australia only) +65 3158 1074

Section 2 – Hazard(s) Identification

Classification of the hazardous chemical

Serious eye damage/eye irritation Category 1

Label elements, including precautionary statements

Pictograms or Symbols



Signal Word

Danger

Hazard Statements

H318 Causes serious eye damage

Precautionary Statements

Prevention

Wear eye protection/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)

Immediately call a POISON CENTER/doctor.(P310)

Section 3 – Composition and Information on Ingredients

Substances or mixture

Mixtures

Ingredients name	Contents	Chemical formula	CAS RN
Higher Alcohols	35-45%	Unknown	Confidential
Polyethylene glycol mono butyl ether	35-45%	Unknown	9004-77-7
2,2,4-Trimethyl-1,3,-pentanediol	15-35%	C16H30O4	6846-50-0

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diisobutyrate			
N,N-Dimethyloctadecan-1-ylamine	0-1%	C20H43N	124-28-7

Section 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.

Section 5 – Fire Fighting Measures

Suitable extinguishing equipment	Dry chemicals, CO2, water spray or regular foam.
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 equipment and precautions for fire fighters	Use goggles in combination with dust mask, and another protections as appropriate to situation.

Section 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 materialwash thoroughly after handling Large spills: Dike spills and dispose of in safe area.

Section 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	Avoid release to the environment.
Storage	
Suitable storage conditions	Store in well-ventilated place.

Section 8 – Exposure controls and personal protection

Control parameters	No data available
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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, for example personal protective equipment (PPE)

Eye and face protection

If necessary, wear protective eye protection.

Skin protection

If necessary, wear protective clothing.

Hand protection

If necessary, wear protective gloves.

Respiratory protection

If necessary, wear respiratory protection.

Section 9 – Physical and Chemical Properties

Appearance

Physical state

Liquid

Color

Clear

Odor

Slight odor

Odor threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point

128°C

Evaporation rate

No data available

Flammability(Solid,Gas)

No data available

Flammability or explosive limits

No data available

Vapor pressure

No data available

Vapor density

No data available

Relative density

0.9–1.0

Solubility

Non-water-soluble

Partition coefficient: n-octanol/water

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

Viscosity

11–13mPa·s(25°C)

Section 10 – Stability and Reactivity

Reactivity

No information available.

Chemical stability

Stable under normal handling.

Possibility of hazardous reactions

May react with acids, oxidising agents and strong oxidising agents.

Conditions to avoid

High temperatures, flames, sparks, ignition sources. Contact with incompatible hazardous substances.

Incompatible materials

Acids, oxidising agents, strong oxidising agents.

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Hazardous decomposition products

May generate toxic gases (CO, CO₂, etc.) by combustion, etc.

Section 11 – Toxicological Information

Acute toxicity (Oral)

Category 4:124-28-7 (converted value = 500mg/kg, source: GHS Hazardous Chemical Information List)
 Not classified:6846-50-0 (source: NITE)
 Classification not possible:9004-77-7 (source: Registered substances (ECHA))
 No data: Confidential

Acute toxicity (Dermal)

Calculation result = 100400mg/kg. Classification result = Classification not possible.
 Not classified:6846-50-0 (toxicity value = 18900mg/kg, source: NITE)
 Classification not possible:124-28-7 (source: GHS Hazardous Chemical Information List), 9004-77-7 (source: Registered substances (ECHA))
 No data: Confidential

Acute toxicity (Inhalation : Gases)

Acute toxicity (Inhalation : Vapours)

Acute toxicity (Inhalation : dust/mist)

Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
 Does not fall under gas based on GHS definitions.
 Unable to classify due to insufficient data.
 Not classified:6846-50-0 (source: NITE)
 Classification not possible:124-28-7 (source: GHS Hazardous Chemical Information List), 9004-77-7 (source: Registered substances (ECHA))
 No data: Confidential

Skin corrosion/ Irritation

Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
 Category 1-1B:124-28-7 (source: GHS Hazardous Chemical Information List)
 Not classified:6846-50-0 (source: NITE)
 Classification not possible:9004-77-7 (source: Registered substances (ECHA))
 No data: Confidential

Serious eye damage/ irritation

Substances classified as hazardous are below the concentration limit.
 Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
 Category 1:9004-77-7 (source: Registered substances (ECHA))
 Not classified:6846-50-0 (source: NITE)
 Classification not possible:124-28-7 (source: GHS Hazardous Chemical Information List)

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No data: Confidential

Respiratory Sensitization
Skin Sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Reproductive toxicity, effects on or via lactation
Specific target organ toxicity – Single exposure

Sum of Eye category 1 Concentration limit = 3%. Classification result = Category 1.

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Category 3:124-28-7 (organ = respiratory tract irritation, source: GHS Hazardous Chemical Information List)

Classification not possible:6846-50-0 (source: NITE), 9004-77-7 (source: Registered substances (ECHA))

No data: Confidential

Substances classified as hazardous are below the concentration limit. Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.

Specific target organ toxicity – Repeated exposure
Aspiration hazard

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Section 12 – Ecological Information

Hazardous to the Aquatic Environment – Acute Toxicity

Category 2:6846-50-0 (source: NITE)

Classification not possible:124-28-7 (source: GHS Hazardous Chemical Information List), 9004-77-7 (source: Registered substances (ECHA))

No data: Confidential

(M factor x 100 x Category 1) + (10 x Category 2) + Category 3 >= Concentration limit(25%). Classification result = Category 3. does not apply to the target country.

Hazardous to the Aquatic Environment – Chronic Toxicity

Category 3:6846-50-0 (source: NITE)

Classification not possible:124-28-7 (source: GHS Hazardous Chemical Information List), 9004-77-7 (source: Registered substances (ECHA))

No data: Confidential

(M factor x 100 x Category 1) + (10 x Category 2) + Category 3 >= Concentration limit(25%). Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.

Hazardous to the Ozone layer

Unable to classify due to insufficient data.

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Section 13 – Disposal considerations

Residual waste	Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes.
Contaminated container and packaging	Dispose of waste in accordance with local, state and federal regulations. Passed to a licensed waste contractor. In case of disposal of empty containers, remove the content thoroughly.

Section 14 – Transport Information

International regulations	
IMDG	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
IATA	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
ADG	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III

Section 15 – Regulatory Information

No main regulation

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.