

Safety Data Sheet

1. IDENTIFICATION

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| 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 |
| 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 1
 Hazardous to the Aquatic Environment – Acute Hazard Category 2
 Hazardous to the Aquatic Environment – Long Term Hazard Category 2

GHS Label Elements

Symbols



Signal Word

Danger

Hazard Statements

H318 Cause serious eye damage

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/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 or doctor. (P310)

Collect spillage. (P391)

Storage

None

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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 number |
| Higher Alcohols | 35-45% | Trade Secret |
| Polyethylene glycol mono butyl ether | 35-45% | 9004-77-7 |
| 2,2,4-Trimethyl-1,3,-pentanediol diisobutyrate | 15-35% | 6846-50-0 |
| N,N-Dimethyloctadecan-1-ylamine | 0-1% | 124-28-7 |

4. FIRST-AID MEASURES

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| In case of inhalation | Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. |
| In case of skin contact | Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops. |
| In case of eye contact | Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention |
| In case of ingestion | Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention. IF SWALLOWED: Call a doctor if you feel unwell. |

5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | carbon dioxide, regular dry chemical, water spray |
| Unsuitable extinguishing media | Do not use straight streams. |
| 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 | Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | Wear personal protective clothing and equipment, see Section 8. Large spills :Evacuate area. Ensure adequate ventilation. |
| Environmental precautions | Avoid release to the environment. Do not discharge into the drains, surface waters or ground water directly. |
| Methods and materials for containment | Small spills: Absorb with sand or other non-combustible material. |

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and cleaning up

Collect spilled material in appropriate container for disposal.

Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

7. HANDLING AND STORAGE

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 protective gloves/protective clothing/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.

Keep away from incompatible materials.

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

Practically odorless

Odor threshold

Not available

pH

Not available

Melting point

Not available

Boiling point

Not available

Flash point

128°C(2,2,4-Trimethyl-1,3,-pentanediol diisobutyrate)

Evaporation rate

Not available

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| Flammability(Solid,Gas) | Not available |
| Flammability or explosive limits | |
| Lower Limit | Not available |
| Upper Limit | Not available |
| Vapor pressure | Not available |
| Vapor density | Not available |
| Specific Gravity (Density) | 0.9-1.0 |
| Solubility | Sparingly soluble |
| Partition coefficient: n-octanol/water | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | 11-13mPa·s(25°C) |

10. STABILITY AND REACTIVITY

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|------------------------------------|---|
| Reactivity | No information available. |
| Chemical stability | Stable at standard temperatures and pressure. |
| Possibility of hazardous reactions | No decomposition if stored and applied as directed. |
| Conditions to avoid | Stable under normal handling and storage conditions. |
| Incompatible materials | Acid, Oxidising agents and 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

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| Acute toxicity (Oral) | Not classified ATEmix > 2,000mg/kg |
| Acute toxicity (Dermal) | Not classified ATEmix > 2,000mg/kg |
| Acute toxicity (Inhalation : Gases) | Classification not possible due to lack of data |
| Acute toxicity (Inhalation : Vapours) | Classification not possible due to lack of data |
| Acute toxicity (Inhalation : dust/mist) | Not classified ATEmix > 5mg/L |
| Skin corrosion/ Irritation | Not classified N,N-Dimethyloctadecan-1-ylamine: Category 1 (0-1%) |
| Serious eye damage/ irritation | Category 1 Polyethylene glycol mono butyl ether: Category 1 (35-45%) N,N-Dimethyloctadecan-1-ylamine: Category 2A (0-1%) |
| Respiratory Sensitization | Classification not possible due to lack of data |
| Skin Sensitization | Classification not possible due to lack of data |
| Germ cell mutagenicity | Classification not possible due to lack of data |
| Carcinogenicity | Classification not possible due to lack of data |

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|--|---|
| Reproductive toxicity | Classification not possible due to lack of data |
| Reproductive toxicity, effects on or via lactation | Classification not possible due to lack of data |
| Specific target organ toxicity – Single exposure | Classification not possible due to lack of data |
| Specific target organ toxicity – Repeated exposure | Classification not possible due to lack of data |
| Aspiration hazard | Classification not possible due to lack of data |

12. ECOLOGICAL INFORMATION

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| Hazardous to the Aquatic Environment – Acute Toxicity | Category 2 2,2,4-Trimethyl-1,3,-pentanediol diisobutyrate: Category 2 (15-35%) N,N-Dimethyloctadecan-1-ylamine: Category 1 (0-1%) |
| Hazardous to the Aquatic Environment – Chronic Toxicity | Category 2 2,2,4-Trimethyl-1,3,-pentanediol diisobutyrate: Category 3 (15-35%) N,N-Dimethyloctadecan-1-ylamine: Category 1 (0-1%) |
| Hazardous to the Ozone layer | Classification not possible due to lack of data |

13. DISPOSAL CONSIDERATIONS

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|--------------------------------------|--|
| 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

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| IMDG | |
| UN/ID No | UN3082 |
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. |
| Hazard Class | 9 |
| Packing Group | III |
| IATA | |
| UN/ID No | UN3082 |
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. |
| Hazard Class | 9 |
| Packing Group | III |

15. REGULATORY INFORMATION

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|---------------------------|---|
| California Proposition 65 | Not regulated under California Proposition 65 |
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16. OTHER INFORMATION

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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.