

Safety Data Sheets

1. Identification

Product Name : Flushing Liquid 07/Maintenance Liquid 07
Order No. : FL007-Z-BA/FL007-Z-BB/FL007-Z-22/ML007-Z-K2
Ink Ver. : 1
General Use : Cleaning solution for ink jet printer
Product Description : Solvent liquid
SDS Number : 037-C150257
Manufacture
Company Name : Mimaki Engineering Co., Ltd.
Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone No. : +81-268-64-2413
Importer / Distributor Established in USA
Company Name : MIMAKI USA, INC.
Address : 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A.
Telephone No. : +1-678-730-0100
Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquid : Not classified

Pyrophoric Liquid : Not classified

Health Hazards

Eye Damage / Irritation : Category 2

Environmental Hazards

Hazardous to the Aquatic : Not classified

Environment - Acute Hazard

Hazardous to the Aquatic : Not classified

Environment - Long Term Hazard

The above list does not include category being non-classifiable or not-applicable.

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[GHS Label Elements]

Symbol



Signal Word

Warning

Hazard Statements

H319 Cause serious eye irritation

Precautionary Statements

[Prevention]

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/clothing and eye/face protection.

[Response]

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.

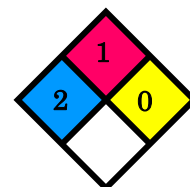
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special = None



CANADIAN WHMIS SYMBOLS : D2B



3. Composition / Information on Ingredients

| No | Chemical Name | Wt% | CAS No. |
|----|-------------------------------------------|--------|----------|
| 1 | Diethylene glycol monoethyl ether acetate | 90-100 | 112-15-2 |

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4. First Aid Measures

| | |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. |
| 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. |
| Skin Contact | : Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops. |
| Ingestion | : If swallowed, get medical attention. |

Most Important Symptoms/Effects

| | |
|-----------------------------------------------------------------------------------|--------------------------------------------------|
| Acute | : eye irritation |
| Delayed | : No information on significant adverse effects. |
| Indication of Immediate Medical Attention and Special Treatment Needed, If Needed | : Treat symptomatically and supportively. |

5. Fire Fighting Measures

| | |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammable Properties | : Flash point 116.0°C Explosive Limits: 0.9-8.5 vol% |
| Extinguishing Media | : carbon dioxide, regular dry chemical, water spray, alcohol resistant foam |
| Unsuitable Extinguishing Media | : None known. |
| Special Hazards Arising from the Chemical | : Slight fire hazard. |
| Hazardous Combustion Products | : oxides of carbon |
| Fire Fighting Measures | : Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products. Stay upwind and |

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Special Protective Equipment and Precautions for Firefighters : keep out of low areas.
: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures : Wear personal protective clothing and equipment, see Section 8.
: Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up : Stop leak if possible without personal risk. Reduce vapors with water spray.
Small spills: Absorb with sand or other non-combustible material. 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 : Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this product. Wear protective eye/face protection. Wash thoroughly after handling. Avoid release to the environment.

Conditions for Safe Storage, including any Incompatibilities : Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure Limit Values : ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Component Biological Limit Values : There are no biological limit values for the component(s) of this product.

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Exposure Controls

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system. Ensure Engineering Controls compliance with applicable exposure limits.

Personal Protection

Respiratory Protection : Consult with a health and safety professional for specific respirators appropriate for your use.



Vapor
Respirator

Hand Protection : Wear appropriate chemical resistant gloves.



Gloves

Eye Protection : Wear splash resistant safety glasses.



Safety
Glasses

Skin Protection : Wear appropriate chemical resistant clothing.



Protective
Apron

9. Physical and Chemical Properties

| | | |
|-------------------------------|------------------|------------------|
| Appearance | - Physical State | : Liquid |
| | - Color | : Clear |
| Odor | | : solvent odor |
| pH | | : Not available |
| Boiling Point / Boiling Range | | : 217°C |
| Melting Point / Melting Range | | : ≤ -25°C |
| Decomposition Temperature | | : Not available |
| Flash Point | | : 116.0°C |
| Flammability (Solid, Gas) | | : Not applicable |

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| | |
|------------------------------------------------|--------------------------------|
| Upper / Lower Flammability or Explosive Limits | : LEL 0.9 vol.% UEL 8.5 vol. % |
| Vapor Pressure | : 13Pa(20 °C) |
| Explosive Properties | : Not available |
| Oxidizing Properties | : Not available |
| Specific Gravity | : 1.012 (20 °C) |
| Solubility | : Not available |
| Water Solubility | : soluble |
| Partition Coefficient (n-octanol / Water) | : Not available |
| Viscosity | : Not available |
| Vapor Density | : Not available |
| Evaporation Rate | : Not available |
| VOC | : Not available |

10. Stability and Reactivity

| | |
|------------------------------------|-------------------------------------------------------------|
| Reactivity | : No reactivity hazard is expected. |
| Chemical Stability | : Stable at standard temperatures and pressure. |
| Possibility of Hazardous Reactions | : Hazardous polymerization will not occur. |
| Conditions to Avoid | : Avoid heat, flames, sparks and other sources of ignition. |
| Incompatible Materials | : acid |
| Hazardous Decomposition | : Combustion: oxides of carbon |

11. Toxicological Information

| | |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Acute Toxicity | : The component(s) of this material have been reviewed in various sources and no selected endpoints have been identified. |
| Component Analysis - LD50/LC50 | |
| Information on Likely Routes of Exposure | |
| Inhalation | : nausea, headache |
| Ingestion | : headache, drowsiness, dizziness, loss of coordination |
| Skin Contact | : irritation |
| Eye Contact | : irritation |

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| | |
|------------------------|------------------------------------------------------------------------------------------------------|
| Immediate Effects | : eye irritation |
| Delayed Effects | : No information on significant adverse effects. |
| Medical Conditions | : No information available for the product. |
| Aggravated by Exposure | |
| Irritation/Corrosivity | : Causes eye irritation |
| Data | |
| Respiratory | : No information available for the product. |
| Sensitization | |
| Dermal Sensitization | : No information available for the product. |
| Germ Cell Mutagenicity | : No information available for the product. |
| Carcinogenicity | : No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for the component(s) of this product. |
| Reproductive Toxicity | : No information available for the product. |
| Specific Target Organ | : No target organs identified. |
| Toxicity - Single | |
| Exposure | |
| Specific Target Organ | : No target organs identified. |
| Toxicity - Repeated | |
| Exposure | |
| Aspiration Hazard | : Not expected to be an aspiration hazard. |

12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it.

Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

| | |
|---------------------------------------|--------------------------------------------------------------------------------|
| Component Analysis - Aquatic Toxicity | : No LOLI ecotoxicity data are available for the component(s) of this product. |
| Persistence and Degradability | : Not available |
| Bioaccumulation | : Not available |
| Mobility | : Not available |
| Other Toxicity | : Not available |

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13. Disposal Considerations

| | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| | : Comply with all USA, national and local regulations. <u>Do not dump this product into sewers, on the ground or into any body of water.</u> |
| Disposal Methods | : Dispose in accordance with all applicable regulations. |
| Component Waste Numbers | : The U.S. EPA has not published waste numbers for this product's components. |
| Disposal of Contaminated Packaging | : Empty containers may contain product residue. Dispose in accordance with all applicable regulations. |

14. Transport Information

| | |
|--------------------|---------------------------------------------------------------------------------------------------------------|
| | Check a thing without a leak in a container. Perform prevention of collapse of cargo surely. |
| US DOT Information | : Not regulated as a hazardous material for transport. |
| TDG Information | : Not regulated as dangerous goods for transport. |
| Marine Pollutant | : No component(s) of this material is specifically listed in the IMDG Code as an identified marine pollutant. |

15. Regulatory Information

| | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U.S. Federal Regulations | : None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan. |
| SARA TitleIII Section 311/312 | : Acute Health: Yes Chronic Health: No Fire: No Pressure: No Reactive: No |

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U.S. State Regulations : None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canada : WHMIS CLASSIFICATION: D2B.

Canadian WHMIS : None of the product component(s) are listed on the Ingredients Disclosure List (IDL).

List (IDL)

Chemical Inventory : Component Analysis - Inventory

Listings

| Component | US | CA | EU | AU | PHIL | JP | KR | CN | NZ |
|------------------------------------------------------|-----|-----|-----|-----|------|-----|-----|-----|-----|
| Diethylene glycol monoethyl ether acetate (112-15-2) | Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | Yes |

16. Other Information

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code - International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit



Product Name: Flushing Liquid 07/Maintenance Liquid 07

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Other Information

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