

Material Safety Data Sheets

1. Product and Company Identification

Product Name : Latex ink LX100 Magenta
Product Code : LX100-M-60-2
General Use : Ink for ink jet printer
Product Description : Aqueous ink
MSDS Number : 031-37W28MP
Manufacture
Company Name : Mimaki Engineering Co., Ltd
Address : 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan
Telephone No. : +81-268-64-2413
Importer / Distributor Established in USA
Company Name : MIMAKI USA. INC.
Address : 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA
30542, U.S.A.
Telephone No. : 1-678-730-0100
Emergency Telephone No. : +1 866 928 0789 (within United States only, Toll free)
+1 215 207 0061

2. Hazards Identification

[GHS Classification]

Physical Hazards

Out of classification or No classification

Health Hazards

Skin Corrosion / Irritation : Category 3

Eye Damage / Irritation : Category 2A

Toxic to Reproduction : Category 2

Environmental Hazards

Out of classification or No classification

[GHS Label Elements]

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Symbol



Signal Word

Warning

Hazard Statements

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements

[Prevention]

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands thoroughly after handling.

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

P281 Use personal protective equipment as required.

[Response]

P308 + P313 If exposed or concerned: Get medical advice/attention.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

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 / container in accordance with local / regional / national / international regulation.

3. Composition / Information on Ingredients

| No | Chemical Name | Wt% | CAS No. | Chemical Formula |
|----|------------------------------|-------|--------------|------------------|
| 1 | Diethylene glycol derivative | 10-30 | Trade Secret | Trade Secret |
| 2 | Alcohol derivative | 20-40 | Trade Secret | Trade Secret |
| 3 | Pigment (Magenta) | 1-5 | Trade Secret | Trade Secret |

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| | | | | |
|---|-------|-------|--------------|------------------|
| 4 | Resin | 3-8 | Trade Secret | Trade Secret |
| 5 | Amine | 0.5-2 | Trade Secret | Trade Secret |
| 6 | Water | 30-50 | 7732-18-5 | H ₂ O |

OSHA Hazardous : This material is considered hazardous.

Components
(29 CFR 1910.1200)

4. First Aid Measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, start artificial respiration at once. Get immediate medical attention.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get immediate medical attention.

Skin Contact : Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Ingestion : If swallowed, get medical attention. Do not give anything by mouth to an unconscious person.

5. Fire Fighting Measures

See Section 9 for Flammability Properties

NFPA Ratings : Health: 1 Fire: 1 Reactivity: 0
 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate
 3 = Serious 4 = Severe

Flammable Properties : This product is not a fire hazard, but may burn. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Extinguishing Media : regular dry chemical, carbon dioxide, water spray, foam

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Fire Fighting : Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Instructions : Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

6. Accidental Release Measures

Occupational spill/release : Wear personal protective clothing and equipment, see Section 8. Collect spilled material in appropriate container for disposal. Keep unnecessary people away, isolate hazard area and deny entry. Avoid creation of vapor or mist.

7. Handling and Storage

Handling : Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling.

Storage : Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Keep away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure Limit Values

There are no exposure limit values for any of this product's components.

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits

Personal Protection

Respiratory : Any chemical cartridge respirator with organic vapor cartridge(s).

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Protection

- Hand Protection : Wear appropriate chemical resistant gloves.
- Eye Protection : Wear splash resistant safety goggles with a faceshield.
- Skin Protection : Wear appropriate chemical resistant clothing.

9. Physical and Chemical Properties

| | | |
|-------------------------------|------------------|-----------------|
| Appearance | - Physical State | : liquid |
| | - Color | : Magenta |
| Odor | | : faint |
| pH | | : 10 |
| Boiling Point / Boiling Range | | : Not available |
| Melting Point / Melting Range | | : Not available |
| Flash Point | | : None |
| Density | | : Not available |
| Water Solubility | | : soluble |
| Viscosity | | : 13 mP · s |
| Vapor Density | | : Not available |
| VOC | | : 52% |

10. Stability and Reactivity

| | |
|---|--|
| Conditions to Avoid | : Avoid contact with incompatible materials. |
| Stability | : Stable at standard temperatures and pressure. |
| Materials to Avoid | : halogens, oxidizing materials |
| Hazardous Reactions / Decomposition Products | : No reactivity hazard is expected. Hazardous polymerization will not occur. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. |

11. Toxicological Information

| | | | |
|----------------|------------------------------|----------------|---------------------|
| Acute Toxicity | : | Oral LD50(rat) | Dermal LD50(rabbit) |
| | Water | >90 mL/kg | |
| | Alcohol derivative | 16 g/kg | |
| | Diethylene glycol derivative | 4920 µL/kg | 3560µL/kg |



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| | | |
|------------------------|---|-------------|
| | Pigment (Magenta) | >5000 mg/kg |
| Irritation | : eye irritation, skin irritation, respiratory tract irritation | |
| Medical Conditions | : respiratory disorders | |
| Aggravated by Exposure | | |

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. |
| Ecotoxicity | : Components of this product are hazardous to aquatic life |

13. Disposal Considerations

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

14. Transport Information

| | |
|--------------------|---|
| | Check a thing without a leak in a container. Perform prevention of collapse of cargo surely. |
| US DOT Information | : Not regulated |
| TDG Information | : Not regulated |
| UN Number | : Not regulated |

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



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302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312 : Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No
Reactive: No

HMIS Ratings : Health: 1* Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate
3 = Serious 4 = Severe * = Chronic hazard

U.S. State Regulations
Not regulated.

16. Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

Revision history

| Version | Date | Content |
|---------|------------|-------------|
| 1.0 | 2012/03/29 | First issue |