

Safety Data Sheets

1. Identification

Product Name : Latex ink LX101 Green
Order No. : LX101-G-60
Ink Ver. : 1
General Use : Ink for ink jet printer
Product Description : Aqueous ink
SDS Number : 037-W350538
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. : +1-678-730-0170
Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[GHS Classification]

Physical Hazards

non-classifiable or not-applicable.

Health Hazards

Eye Damage / Irritation : Category 2

Toxic to Reproduction : Category 2

Environmental Hazards

non-classifiable or not-applicable.

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

[GHS Label Elements]

Symbol



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Signal Word

Warning

Hazard Statements

H319 Cause serious eye irritation

H361 Suspected of damaging fertility or the unborn child

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual 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/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.

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

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

[Storage]

P405 Store locked up.

[Disposal]

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

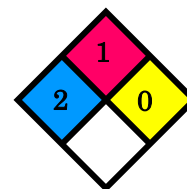
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special = None



CANADIAN WHMIS SYMBOLS



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3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Diethylene glycol derivative	10-20	Trade Secret
2	Alcohol derivative	28-32	Trade Secret
3	Pigment (Green)	1-5	Trade Secret
4	Resin	1-5	Trade Secret
5	Methyldiethanolamine	0.1-1.5	105-59-9
6	Water	balance	7732-18-5

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 : reproductive effects

Indication of Immediate : Treat symptomatically and supportively.

Medical Attention and

Special Treatment

Needed, If Needed

5. Fire Fighting Measures

Flammable Properties : Flash point Not flammable

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

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Unsuitable Extinguishing : Do not scatter spilled material with high-pressure water streams.

Media

Special Hazards Arising : Negligible fire hazard.

from the Chemical

Hazardous Combustion : oxides of carbon, oxides of nitrogen

Products

Fire Fighting : Move container from fire area if it can be done without risk. Do not
 Measures scatter spilled material with high-pressure water streams. Cool
 containers with water spray until well after the fire is out. Stay
 away from the ends of tanks. Avoid inhalation of material or
 combustion by-products.

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

6. Accidental Release Measures

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

and Emergency

Procedures

Methods and Materials : Eliminate all ignition sources if safe to do so. Stop leak if possible
 for Containment and without personal risk. Reduce vapors with water spray.

Cleaning Up

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.

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7. Handling and Storage

Precautions for Safe Handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this product. Wear protective gloves and eye/face protection. Wash thoroughly after handling.
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 cool. Store locked up. Keep separated from incompatible substances.

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.

Exposure Controls

Occupational Exposure Controls

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

Respiratory Protection	: Consult with a health and safety professional for specific respirators appropriate for your use.
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Hand Protection	: Wear appropriate chemical resistant gloves.
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Eye Protection : Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.



Safety Glasses

Skin Protection : Wear appropriate chemical resistant clothing.



Protective Apron

9. Physical and Chemical Properties

Appearance	- Physical State	: Liquid
	- Color	: Green
Odor		: slight solvent odor
pH		: 9.5 ± 0.5
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Decomposition Temperature		: Not available
Flash Point		: Not flammable
Flammability (Solid, Gas)		: Not applicable
Explosive Properties		: Not available
Oxidizing Properties		: Not available
Specific Gravity		: 1.03 ± 0.01 (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

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10. Stability and Reactivity

Reactivity	: No reactivity hazard is expected.
Chemical Stability	: Stable under normal conditions of use.
Possibility of Hazardous Reactions	: Will not polymerize.
Conditions to Avoid	: Avoid flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.
Incompatible Materials	: oxidizing materials
Hazardous Decomposition	: Combustion: oxides of carbon, oxides of nitrogen

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	: irritation, difficulty breathing, headache, reproductive effects
Ingestion	: no information on significant adverse effects
Skin Contact	: irritation
Eye Contact	: irritation
Immediate Effects	: eye irritation
Delayed Effects	: reproductive effects
Medical Conditions	: No information available for the product.
Aggravated by Exposure	
Irritation/Corrosivity	: 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.

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- Reproductive Toxicity : Available data characterizes components of this product as reproductive hazards.
- 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.

- Ecotoxicity : Harmful to aquatic life.
- Component Analysis - : Methyl-diethanolamine (105-59-9)

Aquatic Toxicity

Fish:	96 Hr LC50 Pimephales promelas: >1000 mg/L
Algae:	72 Hr EC50 Desmodesmus subspicatus: 37 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 20 mg/L
Invertebrate:	48 Hr EC50 Daphnia magna: 230 mg/L

- Persistence and Degradability : Not available
- Bioaccumulation : Not available
- Mobility : Not available
- Other Toxicity : Not available

13. Disposal Considerations

: Comply with all USA, national and local regulations.
Do not dump this product into sewers, on the ground or into any body of water.

- Disposal Methods : Dispose in accordance with all applicable regulations.

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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


US DOT Information : Check a thing without a leak in a container.
 TDG Information : Perform prevention of collapse of cargo surely.
 Marine Pollutant : Not regulated as a hazardous material for transport.
 : Not regulated as dangerous goods for transport.
 : 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 Title III Section 311/312 : Acute Health: Yes
 Chronic Health: Yes
 Fire: No
 Pressure: No
 Reactive: No

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

California Proposition 65 : **WARNING:**
 This product can expose you to chemicals including Acetaldehyde, Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Canada : WHMIS CLASSIFICATION: D2A, D2B.
 Canadian WHMIS : None of the product component(s) are listed on the Ingredients



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Ingredient Disclosure Disclosure List (IDL).

List (IDL)

Chemical Inventory : Component Analysis - Inventory

Listings

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Methyldiethanolamine (105-59-9)	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

Other Information

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