

SDS No. 037-W352466 First issue: 2017/05/31

Revised: 2019/10/29

# Safety Data Sheets

#### Identification

**Product Name** : Latex ink LX101 Magenta

Order No. : LX101-M-60

General Use : Ink for ink jet printer

Product Description : Aqueous ink SDS Number : 037-W352466

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 Australia

: MIMAKI SINGAPORE PTE. LTD. Company Name

Address : 31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

Telephone No. : +65-6508-2789

Emergency Telephone No. : +65 3165 2217 (within Singapore only)

+65 3158 1074

#### 2. Hazards Identification

[Classification of the substance or mixture]

Physical Hazards

: Not classified Flammable Liquids

**Health Hazards** 

Skin Corrosion/Irritation : Category 2 Eye Damage / Irritation : Category 2

Specific Target Organ Toxicity : Category 3 (respiratory tract irritation)

(Single Exposure)

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

[Label Elements]





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Signal Word

Warning

**Hazard Statements** 

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

### **Precautionary Statements**

[Prevention]

P271 Use only outdoors or in a well-ventilated area.

P261 Avoid breathing mist/vapours/spray.

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

P312 Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.

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

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

[Storage]

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### [Disposal]

P501 Dispose of contents/container in accordance with local regulations.

## 3. Composition / Information on Ingredients

#### [Substances]

See section below for composition of Mixtures

#### Mixtures

No	Chemical Name	Wt%	CAS No.
1	Alcohol solvent series	28-32	Not Available
2	Glycol ether solvents	10-20	Not Available
3	Pigment	1-5	Not Available
4	methyldiethanolamine	0.1-1.5	105-59-9
5	water	residue	7732-18-5

#### First Aid Measures

[Description of first aid measures]

Eye Contact : If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

Ensure complete irrigation of the eye by keeping eyelids apart and



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away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Seek medical attention without delay; if pain persists or recurs seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact If skin contact occurs:

Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available).

Seek medical attention in event of irritation.

Inhalation : If fumes or combustion products are inhaled remove from

contaminated area.

Lay patient down. Keep warm and rested.

Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.

Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

Transport to hospital, or doctor, without delay.

Ingestion : If swallowed do NOT induce vomiting.

If vomiting occurs, lean patient forward or place on left side

(head-down position, if possible) to maintain open airway and prevent

aspiration.

Observe the patient carefully.

Never give liquid to a person showing signs of being sleepy or with

reduced awareness; i.e. becoming unconscious.

Give water to rinse out mouth, then provide liquid slowly and as

much as casualty can comfortably drink.

Seek medical advice.

Indication of Immediate

Medical Attention and

Special Treatment

Needed

: Treat symptomatically.

#### 5. Fire Fighting Measures

[Extinguishing Media]



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Extinguishing Media : Foam, Dry chemical powder, Carbon dioxide

[Special hazards arising from the substrate or mixture]

Fire Incompatibility : Avoid contamination with oxidising agents i.e. nitrates, oxidising

acids, chlorine bleaches, pool chlorine etc. as ignition may result

[Advice for firefighters]

Fire Fighting : Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves in the event of a

fire.

Prevent, by any means available, spillage from entering drains or

water courses.

Use fire fighting procedures suitable for surrounding area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected

location.

If safe to do so, remove containers from path of fire.

Equipment should be thoroughly decontaminated after use.

Fire/Explosion Hazard : The material is not readily combustible under normal conditions.

However, it will break down under fire conditions and the organic

component may burn.

Not considered to be a significant fire risk.

Heat may cause expansion or decomposition with violent rupture of

containers.

Decomposes on heating and may produce toxic fumes of carbon

monoxide (CO).

May emit acrid smoke.

Decomposes on heating and produces toxic fumes of:

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

May emit corrosive fumes.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and : See section 8.

emergency procedures



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: See section 12. Environmental

precautions

[Methods and material for containment and cleaning up]

Minor Spills : Slippery when spilt.

Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

Control personal contact with the substance, by using protective

equipment.

Contain and absorb spill with sand, earth, inert material or

vermiculite. Wipe up.

Place in a suitable, labelled container for waste disposal.

Major Spills : Slippery when spilt.

Moderate hazard.

Clear area of personnel and move upwind.

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or

water course.

Stop leak if safe to do so.

Contain spill with sand, earth or vermiculite.

Collect recoverable product into labelled containers for recycling.

Neutralise/decontaminate residue (see Section 13 for specific agent).

Collect solid residues and seal in labelled drums for disposal.

Wash area and prevent runoff into drains.

After clean up operations, decontaminate and launder all protective

clothing and equipment before storing and re-using.

If contamination of drains or waterways occurs, advise emergency

services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### 7. Handling and Storage

[Precautions for safe handling]

Safe handling : Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.



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Avoid contact with incompatible materials.

When handling, DO NOT eat, drink or smoke.

Keep containers securely sealed when not in use.

Avoid physical damage to containers.

Always wash hands with soap and water after handling.

Work clothes should be laundered separately. Launder contaminated

clothing before re-use.

DO NOT allow clothing wet with material to stay in contact with skin

[Conditions for safe storage, including any incompatibilities]

Storage : Store in original containers.

Keep containers securely sealed.

No smoking, naked lights or ignition sources.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for

leaks.

Observe manufacturer's storage and handling recommendations

contained within this SDS.

Incompatibility Strong acids, strong oxidisers, acid anhydrides, oxidising and reducing

agents.

#### 8. Exposure Controls / Personal Protection

[Control parameters]

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

## **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
As a Product	Not Available	Not	Not	Not
		Available	Available	Available

Ingredient	Original IDLH	Revised IDLH
Glycol ether solvents	Not Available	Not Available
Alcohol solvent series	Not Available	Not Available
Pigment	Not Available	Not Available



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methyldiethanolamine	Not Available	Not Available
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**Exposure Controls** 

Appropriate : Local exhaust ventilation usually required.

**Engineering Controls** Provide adequate ventilation in warehouse or closed storage area.

Personal protection

Eve and face : Safety glasses with side shields.

protection Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may

absorb and concentrate irritants.

: Wear chemical protective gloves, e.g. PVC. Hands/feet protection

Wear safety footwear or safety gumboots, e.g. Rubber

Body protection : P.V.C. apron.

Respiratory Protection : Consult with a health and safety professional for specific respirators

appropriate for your use.

Thermal hazards : Not Available.









#### 9. Physical and Chemical Properties

[Information on basic physical and chemical properties]

- Physical State : liquid Appearance

> - Color : magenta

Odor : Slight

Odour threshold : Not Available

: 9.3-10.3 pH (as supplied)

Melting point / freezing point (°C) : Not Available Initial boiling point and boiling range : Not Available

(°C)

Flash point (°C) : Not Available Evaporation rate : Not Available Flammability : Not Available Upper Explosive Limit (%) : Not Available Lower Explosive Limit (%) : Not Available : Not Available Vapour pressure (kPa)



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Solubility in water (g/L) : Not Available Vapour density (Air = 1) : Not Available

Relative density (Water = 1) : 1.02-1.04 Partition coefficient n-octanol / water : Not Available Auto-ignition temperature (°C) : Not Available : Not Available Decomposition temperature Viscosity (cSt) : Not Available : Not Available Molecular weight (g/mol) : Not Available Taste : Not Available Explosive properties : Not Available Oxidising properties Surface Tension (dyn/cm or mN/m) : Not Available Volatile Component (%vol) : Not Available Gas group : Not Available : Not Available pH as a solution (1%)

## 10. Stability and Reactivity

: Stable under normal conditions of use. Reactivity

Chemical Stability : Unstable in the presence of incompatible materials.

Product is considered stable.

: Not Available

Possibility of Hazardous : Hazardous polymerisation will not occur.

Reactions

VOC g/L

Conditions to Avoid : See section 7 **Incompatible Materials** : See section 7 : See section 5 Hazardous

Decomposition

#### 11. Toxicological Information

#### Acute Toxicity

	TOXICITY	IRRITATION
As a product	Not Available	Not Available
Methyldiethanol	Dermal (rabbit) LD50: >2000 mg/kg	Eye (rabbit) 20 mg open - irrit.
amine	Oral (rat) LD50: 1945 mg/kg	Skin (rabbit) 10 mg/24H open-mild



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		Skin (rabbit) 502 mg open - mild
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[Information on toxicological effects]

Inhaled : The material can cause respiratory irritation in some persons. The

body's response to such irritation can cause further lung damage.

Ingestion : Accidental ingestion of the material may be damaging to the health of

the individual.

Skin Contact : This material can cause inflammation of the skin on contact in some

persons.

The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage

following entry through wounds, lesions or abrasions.

Open cuts, abraded or irritated skin should not be exposed to this

material

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external demand is suitably protected.

damage is suitably protected.

Eye : This material can cause eye irritation and damage in some persons.

Chronic : Long-term exposure to respiratory irritants may result in disease of

the airways involving difficult breathing and related systemic

problems.

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational

exposure.

Some glycol esters and their ethers cause wasting of the testicles, reproductive changes, infertility and changes to kidney function.

Shorter chain compounds are more dangerous.

Medical Conditions : METHYLDIETHANOLAMINE

Aggravated by Exposure 

The material may cause skin irritation after prolonged or repeated

exposure and may produce on contact skin redness, swelling, the

production of vesicles, scaling and thickening of the skin.

PRODUCT & METHYLDIETHANOLAMINE

Asthma-like symptoms may continue for months or even years after exposure to the material ceases.

exposure to the material ceases.

This may be due to a non-allergenic condition known as reactive



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airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.

Skin : Category 2, as a product

Irritation/Corrosion

Serious Eye : Category 2, as a product

Damage/Irritation

Respiratory or Skin : Data Not Available to make classification

sensitisation

Mutagenicity : Data Not Available to make classification
Carcinogenicity : Data Not Available to make classification
Reproductivity : Data Not Available to make classification

STOT – Single : Category 3, as a product

Exposure

STOT – Repeated : Data Not Available to make classification

Exposure

Aspiration Hazard : Data Not Available to make classification

#### 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.



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## Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	$320 \mathrm{mg/L}$	1
me other ldiothe	EC50	48	Crustacea	=230mg/L	1
methyldietha nolamine	EC50	96	Algae or other aquatic plants	=20mg/L	1
	NOEC	96	Fish	=460mg/L	1

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity

Mobility : No information available for the product. Persistence and : No information available for the product.

Degradability

Bioaccumulative : No information available for the product.

Potential

: No information available for the product. Other Adverse Effects

### 13. Disposal Considerations

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

containers may contain product residue.

Do not dump this product into sewers, on the ground or into any body

of water.

### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Land transport (UN) : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Air transport

(ICAO-IATA / DGR)

: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Sea transport

(IMDG-Code / GGVSee)

: Not Applicable Transport in bulk



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according to Annex II of MARPOL and the IBC code

Marine Pollutant : No

## 15. Regulatory Information

[Safety, health and environmental regulations / legislation specific for the substance or mixture]

Chemical Name	Regulatory
METHYLDIETHANOLAMINE	Nat Applicable
(105-59-9)	Not Applicable

## [National Inventory]

Australia - AICS	: Y
Canada - DSL	: N
Canada - NDSL	: Y
China - IECSC	: N
Europe - EINEC / ELINCS / NLP	: Y
Japan - ENCS	: Y
Korea - KECI	: Y
New Zealand - NZIoC	: N
Philippines - PICCS	: N
USA - TSCA	: Y

Y = All ingredients are on the inventory

N = Not determined or one or more ingredients are not

on the inventory and are not exempt from listing(seespecific ingredients in brackets)

### 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.

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