

Safety Data Sheets

1. Identification

Product Name	: Latex ink LX101 Yellow
Order No.	: LX101-Y60
Ink Ver.	: 1
General Use	: Ink for ink jet printer
Product Description	: Aqueous ink
SDS Number	: 037-W352017
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	
Company Name	: MIMAKI AUSTRALIA PTY LTD.
Address	: Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia
Telephone No.	: + 61-2-8036-4500
Emergency Telephone No.	: +61 2 8014 4558 (within Australia only) 18000 74234 (within Australia only) +65 3158 1074

2. Hazards Identification

[Classification of the substance or mixture]

Poisons Schedule : Not Applicable

[Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 2A

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

(Single Exposure)

Legend: Classified by Chemwatch

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

[Label Elements]

Safety Data Sheets

Symbol



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]

P362 Take off contaminated clothing and wash before reuse.

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 or doctor/physician if you feel unwell.

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

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

[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	0.1-0.5	105-59-9
5	water	residue	7732-18-5

Safety Data Sheets

4. First Aid Measures

[Description of first aid measures]

Eye Contact	<p>: If this product comes in contact with the eyes:</p> <p>Wash out immediately with fresh running water.</p> <p>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</p> <p>Seek medical attention without delay; if pain persists or recurs seek medical attention.</p> <p>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</p>
Skin Contact	<p>If skin contact occurs:</p> <p>Immediately remove all contaminated clothing, including footwear.</p> <p>Flush skin and hair with running water (and soap if available).</p> <p>Seek medical attention in event of irritation.</p>
Inhalation	<p>: If fumes or combustion products are inhaled remove from contaminated area.</p> <p>Lay patient down. Keep warm and rested.</p> <p>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</p> <p>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.</p> <p>Transport to hospital, or doctor, without delay.</p>
Ingestion	<p>: If swallowed do NOT induce vomiting.</p> <p>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</p> <p>Observe the patient carefully.</p> <p>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</p> <p>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</p> <p>Seek medical advice.</p>
Indication of Immediate Medical Attention and	<p>: Treat symptomatically.</p>

Safety Data Sheets

Special Treatment

Needed

5. Fire Fighting Measures

[Extinguishing Media]

Extinguishing Media

: The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider

Foam. Dry chemical powder. Carbon dioxide.

[Special hazards arising from the substrate or mixture]

Fire Incompatibility

: None known.

[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).

Safety Data Sheets

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.

HAZCHEM

: Not Applicable

6. Accidental Release Measures

Personal precautions, : See section 8.

protective equipment and

emergency procedures

Environmental : See section 12.

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.

Safety Data Sheets

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.

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.
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.
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, acid chlorides, acid anhydrides, oxidising and reducing agents.

8. Exposure Controls / Personal Protection

[Control parameters]

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

Safety Data Sheets

EMERGENCY LIMITS

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

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

Exposure Controls

Appropriate : Local exhaust ventilation usually required.

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

Personal protection

Eye 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.

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

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]

Appearance - Physical State : liquid

- Color : yellow

Odor : Slight

Odour threshold : Not Available

Safety Data Sheets

pH (as supplied)	: 9.3-10.3
Melting point / freezing point (°C)	: Not Available
Initial boiling point and boiling range (°C)	: Not Available
Flash point (°C)	: Not Available
Evaporation rate	: Not Available
Flammability	: Not Available
Upper Explosive Limit (%)	: Not Available
Lower Explosive Limit (%)	: Not Available
Vapour pressure (kPa)	: Not Available
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
Decomposition temperature	: Not Available
Viscosity (cSt)	: Not Available
Molecular weight (g/mol)	: Not Available
Taste	: Not Available
Explosive properties	: Not Available
Oxidising properties	: Not Available
Surface Tension (dyn/cm or mN/m)	: Not Available
Volatile Component (%vol)	: Not Available
Gas group	: Not Available
pH as a solution (1%)	: Not Available
VOC g/L	: Not Available

10. Stability and Reactivity

Reactivity	: Stable under normal conditions of use.
Chemical Stability	: Unstable in the presence of incompatible materials. Product is considered stable.
Possibility of Hazardous Reactions	: Hazardous polymerisation will not occur.
Conditions to Avoid	: See section 7
Incompatible Materials	: See section 7

Safety Data Sheets

Hazardous : See section 5

Decomposition

11. Toxicological Information

[Acute Toxicity]

	TOXICITY	IRRITATION
As a product	Not Available	Not Available
Methyl diethanolamine	Dermal (rabbit) LD50: >5990 mg/kg Oral (rat) LD50: 1900 mg/kg	Eye (rabbit) 20 mg open - irrit. Skin (rabbit) 10 mg/24H open-mild Skin (rabbit) 502 mg open - mild
water	Not Available	Not Available

[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 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 airways disease, involving difficulty breathing and related whole-body 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.

Safety Data Sheets

	Shorter chain compounds are more dangerous.
METHYL DIETHANOLAMINE	: 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.
Skin	: Category 2, as a product
Irritation/Corrosion	
Serious Eye	: Category 2A, as a product
Damage/Irritation	
Respiratory or Skin sensitisation	: Data Not Available to make classification
Mutagenicity	: Data Not Available to make classification
Carcinogenicity	: Data Not Available to make classification
Reproductivity	: Data Not Available to make classification
STOT – Single Exposure	: Category 3, as a product respiratory tract irritation.
STOT – Repeated Exposure	: Data Not Available to make classification
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.

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
methyldiethanol amine	LC50	96	Fish	320mg/L	1
	EC50	48	Crustacea	=230mg/L	1
	EC50	96	Algae or other aquatic plants	=20mg/L	1
	EC20	96	Algae or other aquatic plants	=7.4mg/L	1
	NOEC	96	Fish	=460mg/L	1

Legend: Extracted from 1. IUCLID Toxicity Data

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

Safety Data Sheets

Potential

Other Adverse Effects : No information available for the product.

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.

Labels Required : Marine Pollutant: NO
HAZCHEM: Not Applicable

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

Air transport : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
(ICAO-IATA / DGR)

Sea transport : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
(IMDG-Code / GGVSee)

Transport in bulk according to Annex II of MARPOL and the IBC code
: Not Applicable

15. Regulatory Information

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

Chemical Name	Regulatory
METHYLDIETHANOLAMINE (105-59-9)	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)
WATER(7732-18-5)	Australia Inventory of Chemical Substances (AICS)

[National Inventory]

Australia - AICS : Y

Canada - DSL : N

Canada - NDSL : Y



Safety Data Sheets

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

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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