

1. Identification

Product Name	: Latex ink LX101 Green
Order No.	: LX101-G-60-2
Ink Ver.	:2
General Use	: Ink for ink jet printer
Product Description	Aqueous ink
SDS Number	:037-W357084
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 Esta	blished in Australia
Company Name	: MIMAKI SINGAPORE PTE. LTD.
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	
Flammable Liquids	: Not classified
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] 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 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

4. 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	: Treat symptomatically.
Medical Attention and	
Special Treatment	
Needed	

5. Fire Fighting Measures

[Extinguishing Media]

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Extinguishing Media	: Foam, Dry chemical powder, Carbon dioxide
[Special hazards arising from	m 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	\vdots 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, : See section 8. protective equipment and emergency procedures



: 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 St	orage
[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	e, 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 Ameilable	Not	Not	Not
	Not Available	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



methyldiethanolamine		Not Available	Not Available
Exposure Controls			
Appropriate	: Loc	al exhaust ventilation usually req	uired.
Engineering Controls	Provide adequate ventilation in warehouse or closed storage area.		
Personal protection			
Eye and face	: Saf	ety glasses with side shields.	
protection	Che	emical goggles.	
	Cor	ntact lenses may pose a special haz	zard; soft contact lenses may
	abso	rb and concentrate irritants.	
Hands/feet protection	:We	ar chemical protective gloves, e.g.	PVC.
	We	ar safety footwear or safety gumbo	oots, e.g. Rubber
Body protection	: P.V	.C. apron.	
Respiratory Protection	: Cor	nsult with a health and safety prof	essional for specific respirators
	appr	opriate for your use.	
Thermal hazards	: Not	Available.	
		un and a second se	



9. Physical and Chemical Properties

[Information on basic physical and chemical properties]

Appearance	- Physical State	: liquid
	- Color	: Yellow
Odor		: green
Odour thresh	old	: Not Available
pH (as supplie	ed)	: 9.0-10.0
Melting point	/ freezing point (°C)	: Not Available
Initial boiling	: Not Available	
(°C)		
Flash point (°	C)	: Not Available
Evaporation r	rate	: Not Available
Flammability		: Not Available
Upper Explos	ive Limit (%)	: Not Available
Lower Explos	ive Limit (%)	: Not Available
Vapour pressu	are (kPa)	: Not Available

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Vapour density (Air = 1) \therefore Not Ava	ilable
Relative density (Water = 1) : 1.02-1.0	4
Partition coefficient n-octanol / water : Not Ava	ilable
Auto-ignition temperature (°C) : Not Ava	ilable
Decomposition temperature : Not Ava	ilable
Viscosity (cSt) : Not Ava	ilable
Molecular weight (g/mol) : Not Ava	ilable
Taste : Not Ava	ilable
Explosive properties : Not Ava	ilable
Oxidising properties : Not Ava	ilable
Surface Tension (dyn/cm or mN/m) : Not Ava	ilable
Volatile Component (%vol) : Not Ava	ilable
Gas group : Not Ava	ilable
pH as a solution (1%) : Not Ava	ilable
VOC g/L : Not Ava	ilable

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	: Hazardous polymerisation will not occur.
Reactions	
Conditions to Avoid	: See section 7
Incompatible Materials	: See section 7
Hazardous	: See section 5
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



1		
		Skin (rabbit) 502 mg open - mild
[Information on toxicologic		
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 mate the individual.	erial may be damaging to the health of
Skin Contact	: This material can cause inflamm	nation of the skin on contact in some
	persons.	
	The material may accentuate any	v pre-existing dermatitis condition
	Skin contact is not thought to have	ve 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 sl material	kin should not be exposed to this
	-	ough, for example, cuts, abrasions or ury 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 irr	ritation and damage in some persons.
Chronic	: Long-term exposure to respirate	ory irritants may result in airways
	disease, involving difficulty breat	hing and related whole-body
	problems.	
	Substance accumulation, in the h	uman body, may occur and may cause
	some concern following repeated	or long-term occupational exposure.
	Some glycol esters and their ethe	rs cause wasting of the testicles,
	reproductive changes, infertility a	and changes to kidney function.
	Shorter chain compounds are more	re dangerous.
Medical Conditions	: METHYLDIETHANOLAMINE	E
Aggravated by Exposure	The material may cause skin ir	rritation after prolonged or repeated
	exposure and may produce on cor	ntact skin redness, swelling, the
	production of vesicles, scaling and	d thickening of the skin.
	PRODUCT & METHYLDIETH	IANOLAMINE
	Asthma-like symptoms may con	ntinue for months or even years after
	exposure to the material ceases.	
	This may be due to a non-allerge	enic condition known as reactive
	airways dysfunction syndrome (R	ADS) which can occur following

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Product Name: Latex ink LX101 Green SDS No. 037-W357084 First issue: 2022/04/01 Revised:

	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
d1 : .	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	
$\operatorname{STOT}-\operatorname{Repeated}$: Data Not Available to make classification
Exposure	

12. Ecological Information

Aspiration Hazard

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

: Data Not Available to make classification



Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	320mg/L	1
	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	
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.		
Land transport (UN)	: 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	: Not Applicable	
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	Not Applicable
(105-59-9)	

[National Inventory]

(ational 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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