

### 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-W357078
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	ablished 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.	: +1 866 928 0789 (within United States only, Toll free)
	$+1\ 215\ 207\ 0061$

### 2. Hazards Identification

# [GHS 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)	

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





Signal Word Warning

Hazard Statements H315 Cause skin irritation H319 Cause serious eye irritation H335 May cause respiratory irritation.

**Precautionary Statements** [Prevention] P261 Avoid breathing gas/mist. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. [Response] 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. 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. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. [Storage] P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. [Disposal] P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

NFPA Rating (scale 0 - 4)

Health = 2 Flammability = 1 Instability = 3 Special = None



# 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Glucol ether solvents	10-20	Trade Secret
2	Alcohol solvent series	28-32	Trade Secret
3	Pigment	1-5	Trade Secret
4	Organic ingredient	1-5	Trade Secret



# Safety Data Sheets

5 Methyldiethano	lamine	0.1-1.5	105-59-9
4. First Aid Measure			
Description of first aid			
Eye Contact	: If this product co	mes in contact with the e	eyes:
	Wash out immedi	ately with fresh running	; water.
	Ensure complete	irrigation of the eye by k	eeping eyelids apart and
	away from eye an	d moving the eyelids by	occasionally lifting the
	upper and lower	ids.	
	Seek medical atte	ention without delay; if p	ain persists or recurs seel
	medical attention	l.	
	Removal of conta	ct lenses after an eye inj	ury should only be
	undertaken by sk	illed personnel.	
Skin Contact	: If skin contact oc	curs:	
	Immediately rem	ove all contaminated clo	thing, including footwear.
	Flush skin and h	air with running water (	and soap if available).
	Seek medical atte	ention in event of irritati	on.
Inhalation	: If fumes or comb	ustion products are inhal	led remove from
	contaminated are	ea.	
	Lay patient down	. Keep warm and rested	
	Prostheses such a	as false teeth, which may	v block airway, should be
	removed, where p	oossible, prior to initiatin	g first aid procedures.
	Apply artificial re	espiration if not breathin	g, preferably with a
	demand valve res	suscitator, bag-valve mas	k device, or pocket mask
	as trained. Perfor	rm CPR if necessary.	
	Transport to hosp	oital, or doctor, without d	elay.
Ingestion	: If swallowed do N	NOT induce vomiting.	
	If vomiting occurs	s, lean patient forward o	r place on left side
	(head-down posit	ion, if possible) to mainta	ain open airway and
	prevent aspiratio	n.	
	Observe the patie		
	-	-	ns of being sleepy or with
		ss; i.e. becoming unconso	
		se out mouth, then provi	
		can comfortably drink.	1
	Seek medical adv	-	

# **MINCIKI** Safety Data Sheets

Most important symptoms and effects, both acute and delayed See Section 11.

5. Fire Fighting Measure	es estatution estatu
Extinguishing Media	Alcohol stable foam. Dry chemical powder. BCF (where regulations
	permit). Carbon dioxide. Water spray or fog - Large fires only.
Special hazards arising fro	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
Special protective equipme	ent and precautions for fire-fighters
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.
	Wear full body protective clothing with breathing apparatus.
	Prevent, by any means available, spillage from entering drains or
	water course.
	Use water delivered as a fine spray to control fire and cool adjacent
	area.
	Avoid spraying water onto liquid pools.
	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.
Fire/Explosion Hazard	: Slight fire hazard when exposed to heat or flame.
	Heating may cause expansion or decomposition leading to violent
	rupture of containers.
	On combustion, may emit toxic fumes of carbon monoxide (CO).
	May emit acrid smoke.
	Mists containing combustible materials may be explosive.
	Combustion products include:
	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, p	protective equipment and emergency procedures
See section 8.	
Environmental precaut	tions
See section 12.	
Methods and material	for containment and cleaning up
Minor Spills	Slippery when spilt.
	Remove all ignition sources.
	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.
	No smoking, naked lights or ignition sources.
	Increase ventilation.
	Stop leak if safe to do so.
	Contain spill with sand, earth or vermiculite.
	Collect recoverable product into labelled containers for recycling.
	Absorb remaining product with sand, earth or vermiculite.
	Collect solid residues and seal in labelled drums for disposal.
	Wash area and prevent runoff into drains.
	If contamination of drains or waterways occurs, advise emergency
	services.
Porconal Protoctivo Fo	uinment advice is contained in Section 8 of the SDS

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



# 7. Handling and Storage

Precautions for Safe	Avoid all personal contact, including inhalation.
Handling	Wear protective clothing when risk of exposure occurs.
0	Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	DO NOT enter confined spaces until atmosphere has been checked.
	DO NOT allow material to contact humans, exposed food or food
	utensils.
	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.
	Use good occupational work practice.
	Observe manufacturer's storage and handling recommendations
	contained within this SDS.
	Atmosphere should be regularly checked against established
	exposure standards to ensure safe working conditions are
	maintained.
	DO NOT allow clothing wet with material to stay in contact with skin
Conditions for Safe	: Store in original containers.
Storage, including any	Keep containers securely sealed.
Incompatibilities	No smoking, naked lights or ignition sources.
	Store in a cool, dry, well-ventilated area.
	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.
	Are incompatible with 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

#### 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
Glucol ether solvents	Not Available	Not Available
Alcohol solvent series	Not Available	Not Available
Pigment	Not Available	Not Available
Organic ingredient	Not Available	Not Available
methyldiethanolamine	Not Available	Not Available

Exposure Controls

Occupational Exposure Controls

Appropriate: General exhaust is adequate under normal operating conditions.Engineering ControlsLocal exhaust ventilation may be required in special circumstances.If risk of overexposure exists, wear approved respirator. Supplied-air<br/>type respirator may be required in special circumstances. Correct fit<br/>is essential to ensure adequate protection.Provide adequate ventilation in warehouses and enclosed storage<br/>areas.

#### Personal Protection

Respiratory: Consult with a health and safety professional for specific respiratorsProtectionappropriate for your use.



: Wear chemical protective gloves, e.g. PVC.



Safety glasses with side shields.

# **MIMCIKI**<sup>®</sup> Safety Data Sheets

Product Name: Latex ink LX101 Green SDS No. 037-W357078 First issue: 2022/04/01 Revised:



Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

: Wear appropriate chemical resistant clothing.

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

# 9. Physical and Chemical Properties

Appearance - Physical State	: Liquid
- Color	: Green
Odor	$\vdots$ slight solvent odor
pH	: 9.0-10.0
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	: 1.02-1.04
Solubility	: Not available
Water Solubility	: Not available
Partition Coefficient (n-octanol / Water)	: Not available
Viscosity	: Not available
Vapor Density	: Not available
Evaporation Rate	: Not available
VOC	: Not available

#### 10. Stability and Reactivity

Reactivity	: No reactivity hazard is expected.
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	Avoid flames, sparks, and other sources of ignition. Avoid contact
	with incompatible materials.
Incompatible Materials	: Strong acids, acid chlorides, acid anhydrides, oxidising and reducing
	agents.
Hazardous	: See section 5
Decomposition	

#### 11. Toxicological Information

Acute Toxicity	<sup>:</sup> methyldiethanolamine
Component Analysis -	Dermal (rabbit) LD50: 10244 mg/kg
LD50/LC50	Oral (rat) LD50: 1945 mg/kg
Information on Likely Ro	utes of Exposure
Inhalation	: Respiratory tract irritation
Ingestion	: no information on significant adverse effects
Skin Contact	: irritation
Eye Contact	: irritation
Immediate Effects	Skin irritation, eye irritation
Delayed Effects	: Respiratory tract irritation
Medical Conditions	: No information available for the product.
Aggravated by Exposure	
Irritation/Corrosivity	: Skin irritation, 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.
Reproductive Toxicity	: No information available for the product.
Specific Target Organ	: Respiratory tract irritation.
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

Product: Not classified

Component Analysis - Aquatic Toxicity

### Methyldiethanolamine

ENDPOINT	TEST	SPECIES	VALUE	SOURCE
	DURATION (HR)			
LC50	96	Fish	320mg/L	1
EC50	48	Crustacea	=230mg/L	1
EC50	96	Algae or other aquatic plants	=20mg/L	1
NOEC	96	Fish	=460mg/L	1

SOURCE: Extracted from 1. IUCLID Toxicity Data

Persistence and	: No information available for the product.
Degradability	
Bioaccumulation	: No information available for the product.
Mobility	: No information available for the product.
Other Toxicity	: No information available for the product.

#### 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.
<b>Disposal Methods</b>	: Dispose in accordance with all applicable regulations.
Component Waste	: The U.S. EPA has not published waste numbers for this product's
Numbers	components.
Disposal of	: Empty containers may contain product residue. Dispose in
Contaminated	accordance with all applicable regulations.
Packaging	



Check a thing without a leak in a container.	
Perform prevention of collapse of cargo surely.	
: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
: Not Applicable	
: NO	

### 15. Regulatory Information

Safety, health and environmental regulations / legislation specific for the substance or mixture METHYLDIETHANOLAMINE (105-59-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No



Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

State Regulations

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.

National Inventory Status

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Ν
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



# 16. Other Information

#### 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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