

SDS No. 037-W352015 First issue: 2017/04/11

Revised: 2019/10/29

# Safety Data Sheets

### Identification

**Product Name** : Latex ink LX101 Black

Order No. : LX101-K-60

Ink Ver. : 2

General Use : Ink for ink jet printer

**Product Description** : Aqueous ink : 037-W352015 SDS Number

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.

: Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia Address

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

: Not classified Flammable Liquids

**Health Hazards** 

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

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

(Single Exposure)

Specific target organ toxicity : Category 2

(Repeated exposure)

Legend: Classified by Chemwatch



SDS No. 037-W352015 First issue: 2017/04/11

Revised: 2019/10/29

## Safety Data Sheets

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 eve irritation.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

### **Precautionary Statements**

### [Prevention]

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P281 Use personal protective equipment as required.

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

### Response

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

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.

### Composition / Information on Ingredients

### [Substances]

See section below for composition of Mixtures

### Mixtures

No	Chemical Name	Wt%	CAS No.
1	carbon black	1-5	1333-86-4



SDS No. 037-W352015 First issue: 2017/04/11

Revised: 2019/10/29

## Safety Data Sheets

2	Glycol ether solvents	10-20	Not Available
3	Alcohol solvent series	28-32	Not Available
4	methyldiethanolamine	0.1-0.5	105-59-9
5	Water	residue	7732-18-5

### 4. First Aid Measures

Skin Contact

[Description of first aid measures]

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

Wash out immediately with fresh running water.

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.

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. 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.

Page 3 of 13



Safety Data Sheets

Product Name: Latex ink LX101 Black

SDS No. 037-W352015 First issue: 2017/04/11

Revised: 2019/10/29

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.

### 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.



SDS No. 037-W352015 First issue: 2017/04/11

Revised: 2019/10/29

# Safety Data Sheets

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.

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.



SDS No. 037-W352015 First issue: 2017/04/11

Revised: 2019/10/29

# Safety Data Sheets

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.

## 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.



Safety Data Sheets

Product Name: Latex ink LX101 Black

SDS No. 037-W352015 First issue: 2017/04/11 Revised: 2019/10/29

## 8. Exposure Controls / Personal Protection

[Control parameters]

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source: Australia Exposure Standards

Ingredient	Material name	TWA	STEL	Peak	Notes
carbon black		9	Not	Not	Not
	carbon black	3 mg/m3	Available	Available	Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
carbon black	carbon black	9 mg/m3	99 mg/m3	590 mg/m3

Ingredient	Original IDLH	Revised IDLH
carbon black	N.E. mg/m3 / N.E. ppm	1,750 mg/m3
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.



SDS No. 037-W352015 First issue: 2017/04/11 Revised: 2019/10/29

# Safety Data Sheets









## 9. Physical and Chemical Properties

[Information on basic physical and chemical properties]

Appearance - Physical State : liquid

- Color : black

Odor : Slight

Odour threshold : Not Available

pH (as supplied) : 9.3-10.3

Melting point / freezing point (°C) : Not Available

Initial boiling point and boiling range : Not Available

(°C)

: Not Available Flash point (°C) Evaporation rate : Not Available Flammability : Not Available Upper Explosive Limit (%) : Not Available : Not Available Lower Explosive Limit (%) : Not Available Vapour pressure (kPa) Solubility in water (g/L) : Not Available Vapour density (Air = 1) : Not Available

Partition coefficient n-octanol / water : Not Available
Auto-ignition temperature (°C) : Not Available
Decomposition temperature : Not Available
Viscosity (cSt) : Not Available

: 1.02-1.04

Relative density (Water = 1)

Molecular weight (g/mol) : Not Available

Taste : Not Available Explosive properties : Not Available

Oxidising properties : Not Available

 $Surface \ Tension \ (dyn/cm \ or \ mN/m) \\ \hspace{2cm} \vdots \ Not \ Available$ 

Volatile Component (%vol) : Not Available

Gas group : Not Available

pH as a solution (1%) : Not Available

VOC g/L : Not Available



SDS No. 037-W352015 First issue: 2017/04/11

Revised: 2019/10/29

## 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
carbon black	Dermal (rabbit) LD50: >3000 mg/kg	Not Available
	Oral (rat) LD50: >10000 mg/kg	
Mathail	Dawn al (sallaid) I DEO: > 5000 see allan	Eye (rabbit) 20 mg open - irrit.
Methyl	Dermal (rabbit) LD50: >5990 mg/kg	Skin (rabbit) 10 mg/24H open-mild
diethanolamine	Oral (rat) LD50: 1900 mg/kg	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,



SDS No. 037-W352015 First issue: 2017/04/11 Revised: 2019/10/29

# Safety Data Sheets

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 : There has been concern that this material can cause cancer or

mutations, but there is not enough data to make an assessment.

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.

Shorter chain compounds are more dangerous.

CARBON BLACK : WARNING: This substance has been classified by the IARC as Group

2B: Possibly Carcinogenic to Humans.

Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported

METHYL : The material may cause skin irritation after prolonged or repeated

DIETHANOLAMINE 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 : Data Not Available to make classification

sensitisation

Mutagenicity : Data Not Available to make classification

Carcinogenicity : Category 2, as a product

CARBON BLACK; IARC as Group 2B: Possibly Carcinogenic to

Humans.

Reproductivity : Data Not Available to make classification

STOT – Single : Category 3, as a product

Exposure respiratory tract irritation.

STOT – Repeated : Category 2, as a product

Exposure

Aspiration Hazard : Data Not Available to make classification



Safety Data Sheets

Product Name: Latex ink LX101 Black

SDS No. 037-W352015 First issue: 2017/04/11 Revised: 2019/10/29

## 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
carbon black	LC50	96	Fish	=1000mg/L	1
carbon black	NOEC	96	Fish	=1000mg/L	1
	LC50	96	Fish	320mg/L	1
	EC50	48	Crustacea	=230mg/L	1
methyldiethanol	EC50	96	Algae or other aquatic plants	=20mg/L	1
amine	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 : 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.

Labels Required : Marine Pollutant: NO

HAZCHEM: Not Applicable

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



SDS No. 037-W352015 First issue: 2017/04/11 Revised: 2019/10/29

# Safety Data Sheets

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
	Australia Exposure Standards
	Australia Hazardous Chemical Information System (HCIS) -
CARBON BLACK(1333-86-4)	Hazardous Chemicals
CARBON BLACK(1333-86-4)	Australia Inventory of Chemical Substances (AICS)
	International Agency for Research on Cancer (IARC) - Agents
	Classified by the IARC Monographs
MEMIST DIEMITANOLAMINE	Australia Hazardous Chemical Information System (HCIS) -
METHYLDIETHANOLAMINE	Hazardous Chemicals
(105-59-9)	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
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)



SDS No. 037-W352015 First issue: 2017/04/11 Revised: 2019/10/29

## 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.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.