

SDS No. 037-U131073 First issue: 2015/12/9 Revised:

Safety Data Sheets

1. Identification

Product Name : LUS-350 Cyan Order No. : LUS35-C-BA

Ink Ver. :1

General Use : Ink jet printing ink

Product Description : UV Inkjet Ink SDS Number : 037-U131073

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 USA

Company Name : MIMAKI USA, INC.

Address : 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A.

Telephone No. : +1-678-730-0700 Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[HCS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity – Oral : Category 4

Acute Toxicity – Dermal : Category 4

Skin Corrosion / Irritation : Category 2

Serious Eye Damage / Irritation : Category 2

Sensitization / Skin : Category 1

Toxic to Reproduction : Category 2

Specific Target Organ Toxicity : Category 1 (liver, respiratory tract stimulative)

(Repeated Exposure)

Environmental Hazards

Hazardous to the Aquatic : Category 3

Environment - Acute Hazard



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Hazardous to the Aquatic : Category 3

Environment - Long Term Hazard

The above list does not include category being non-classifiable or not-applicable. [HCS Label Elements]

Symbol





Signal Word Danger

Hazard Statements

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure (liver, respiratory tract stimulative)

H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

[Response]

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

P321 Specific treatment (see 4-Response on our website/SDS URL: www.mimaki.co.jp/sds).

P330 (IF SWALLOWED): Rinse mouth.

P333+P313 If skin irritation or rash 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]

P405 Store locked up.



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[Disposal]

P501 Dispose of contents/container in accordance with

local/regional/national/international regulation (to be specified).

HMIS Rating (scale 0-4)

Health = 2

Flammability= 1

Reactivity = 1

Protective Equipment =



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Photosensitive resin	80-90	Trade Secret
2	Photoinitiator	5-15	Trade Secret
3	Pigment	1-5	Trade Secret
4	Additive	1-5	Trade Secret

4. First Aid Measures

Inhalation : Wrap a patient with blanket or the like, immediately to settle

him/her, and bring him/her to a place under fresh air.

: In case breathing is getting difficult or has stopped, apply artificial

respiration and seek medical care, immediately.

Eye Contact : Wash the contamination out of eyes, even reverse side of eyelids,

immediately with plenty of running water for more than 15 minutes,

Seek medical attention as soon as possible.

Skin Contact : Take off immediately all contaminated clothing and shoes, and wash

contaminated parts of body and skin with water and soap, and then

with running water.

: If pain remains or inflammation is caused in skins, get medical

attention immediately.

Ingestion : If swallowed product, should not let patient vomit forcibly, because

vomited articles may be a cause of such danger that it might block

patient's tracheae.

: Should get medical attention, immediately.



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: Rinse mouth.

Fire Fighting Measures

: Flash point : 100°C Flammable Properties

Extinguishing Media : Powders, bubbles, carbon dioxide, dry sand, mists of a reinforcement

liquid

Unsuitable Extinguishing : Water jet

Media

Fire Fighting Measures : Transfer a container to a safe place immediately.

: If unable to move the container, cool it and the surroundings down

by sprinkling water thereto.

: Fire should be extinguished with the dedicated extinguishant.

: Remove immediately all flammable materials surrounding fire.

Specific protective

equipment for

firefighters

For fighting a fire, be sure to wear appropriate protectors. Do not

work at the lee side of fire.

Accidental Release Measures

Personal Precautions : Evacuate persons at the lee.

> : Do not allow persons to enter into an area where leakage is occurring by means of extending ropes around the leaked place.

Remove possible sources of ignition presenting nearby, immediately.

: For fighting a fire, be sure to wear appropriate protectors.

: Should work from the windward.

: When the product has leaked into an interior, ventilate well the room until the leaked had been cleaned completely.

: For fighting a fire, wear appropriate protectors such as gloves, masks, aprons and goggles.

: Collect leakage into a sealable container, and the container should be transferred to a safe place.

: Articles contaminated with product and the wastes must be disposed in accordance with the related statutes.

: Collect the liquid being spilled over by means of a tool made of a material which does not spark due to impact or friction.



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Do not touch leaked liquid and/or broken container without wearing appropriate protectors.

Environmental : Do not drain waste wash into a river without treatment.

Precautions : Collecting of spilled-over-product and water used for washing it

must be done by absorbing them with dry sand, soil, wiping rags or

any other uninflammable materials.

: When a great amount of product is leaked, block the leakage by

constructing banks there around with soil.

: Do not release into the environment.

Methods for cleaning up : Leaked product should be blocked with sand and soil, and lead the

stream of the leakage toward a safe place.

: Collect spilt-over product as much as possible into a sealable

container.

: Recover spilled portion of product, and wash out the spoiled floor

with sufficient water using dispersing agent such as neutral

detergent.

7. Handling and Storage

Precautions for Safe Handling

- : Keep fire away from the workplace where product is handled.

 Exhaust ventilation system for the workplace should be operated properly.
- : Put on appropriate protective wears and implements so as not to inhale chemicals and cause contact with eyes, skin and/or clothing.
- : Close container tightly every time after use.
- : Prevent diffusion of volatile as much as possible, so that the concentration of volatile in a working environment can be less than the concentration to be controlled.
- : Cloth piece used for wiping product should be burn or discarded immediately.
- : Avoid contact with skins, and do not inhale or swallow product accidentally.
- : Pay attention to fire. Ventilate the operation area thoroughly, and handle the product in a place without exposure to direct sunlight nor ultraviolet ray.
- : When working suit has been contaminated with product, clean it out



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and replaced with a new working suit. Prevent skins from being touched with the contaminated part for a long time.

: Wash hands and gargle thoroughly after handling.

: Make sure not to handle product without completing to read and

understanding the safety precaution.

Technical measures : Be sure to ground apparatuses, equipments, etc. for securing to

prevent generation of static electricity.

: Take measures such as wearing electroconductive working clothes,

electroconductive working shoes, and so on.

local evacuation, entire

evacuation

: Refer to 8. Exposure Controls / Personal Protection.

Storage : Containers should be tightly closed, made distinguishable from the

others, and stored in a dark, cool well-ventilated place.

: Keep away from heat source, such as boilers, and combustible

materials.

: Never store in the same place where oxidizer and organic peroxides

are stored.

: This product must be stored in a warehouse specially used for

dangerous chemicals conforming to Fire Service Act.

: Product must be stored in an original container or drum.

: Store product under lock and key.

: In order to prevent from being polymerized with heat or ultraviolet

rays, charge into a sealable containers and store in a designated

well-ventilated, dark and cool place.

8. Exposure Controls / Personal Protection

Exposure Limit Values : Not available

Exposure Controls

Occupational Exposure Controls

Equipment : For indoor operations, make sure to seal up the source of leakage, or

install a ventilation system for workplace as a whole. Upon necessity,

install on-the-spot ventilation.

Individual Protection Measures, such as Personal Protective Equipment



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Respiratory Protection : Wear the respirator against toxic gas.



Glove : Wear the oil resistant protective gloves

Recommendations



Eye /Face : Wear coverall, chemical goggles and face shield when handling.

Protection



Skin Protection : To prevent any contact, wear impervious clothing such as gloves,

apron, boots, or whole body suits made from neoprene, as

appropriate.

Appropriate : A cartridge used for a respirator must be renewed either regularly or

sanitary appropriately corresponding to breakthrough time of use.

requirement

Protective

Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : blue

Odor : Not available
pH : Not available
Boiling Point / Boiling Range : Not available
Melting Point / Melting Range : Not available

Flash Point : 100°C

Autogenous ignition temperature : Not available
Decomposition temperature : Not available
Upper / Lower Flammability or : Not available



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Explosive Limits

Vapor Pressure : Not available
Relative Density : Not available
Solubility : insoluble

Viscosity : Not available
Vapor Density : Not available

VOC : <1%

10. Stability and Reactivity

Stability : Physically stable under an ambient temperature or lower.

: Polymerization may be caused due to heat or ultraviolet rays.

Conditions to Avoid : If it is heated, the container could explode to be broken down. Do not

subject the container to static electricity.

: Keep away from high temperature and heating.

Dangerous substances

mixed touch

: This product should not mix with strong oxidants and high-pressure

gases.

: Contact with heat, light, strong acids, peroxides, oxidizing agents,

alkalis or radical initiator should be avoided.

Hazardous Reactions /

: Toxic gases such as CO and NOx will be generated during

Decomposition Products combustion.

11. Toxicological Information

Acute Toxicity

Chemical	Oral	Dermal	inhalation:	inhalation:	inhalation:
Name			gases	vapours	dusts and mists
Pigment	Not classified	-	-	-	-

Skin corrosion/Skin : No information available

irritation

Serious eye damage/Eye : No information available

Irritation

Respiratory sensitizer : No information available
Skin sensitizer : No information available
Germ cell mutagenicity : No information available
Carcinogenicity : No information available



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Toxic to reproduction

 $: No\ information\ available$

Specific target organ

: No information available

toxicity(single exposure)

Specific target organ

: No information available

toxicity(repeated

exposure)

Aspiration hazard : No information available

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 : Hazardous to the Aquatic Environment - Acute Hazard

Category 3

: Hazardous to the Aquatic Environment - Long Term Hazard

Category 3

Persistence and

: No information available

Degradability

Bioaccumulative : No information available

Potential

Other Adverse Effects : No information available

13. Disposal Considerations

: Comply with all USA, national and local regulations.

: When this product is subjected to incineration, it must be done in accordance with the standard for disposing Industrial Waste.

: Use industrial waste disposal companies who is authorized by local municipal government for the disposal.

<u>Do not dump this product into sewers</u>, on the ground or into any body of water.



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14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Class : Not applicable
UN Number : Not applicable
Proper Shipping Name : Not applicable
Seawater pollution : Not applicable

material

MARPOL Annex II : Not applicable

15. Regulatory Information

US Federal regulations

TSCA Status : TSCA Section 5 Significant New Use Rule Regulation (SNUR): Not regulated

: TSCA Section 12(b) Export Notification Requirements: Not regulated

T 1: 4	Section 302	Section 304	CERCLA	Section	RCRA	CAA 112(r)
Ingredient	EHS TPQ	EHS RQ	RQ	313	Code	TQ
None	No	No	No	No	No	No

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200.

EPCRA (Emergency Planning and Community Right-to-Know Act): Section 302: Extremely Hazardous Substances(EHS), Threshold Planning Quantity (TPQ) in 40 CFR 355; EPCRA Section 304 gives EHS reportable quantities

(RQ); Section 313 Toxic Chemicals, subject to annual reporting (40 CFR 372).

CERCLA (Comprehensive Environmental Response Compensation and Liability Act), Hazardous Substances; accidental release of substances above the Reportable Quantity (RQ) listed requires reporting; local reporting requirements may be in force.

RCRA Hazardous Wastes: RCRA P and U lists (40 CFR 261.33).

CAA Substances for Accidental Release Prevention: Clean Air Act 112 (r), Hazardous Air Pollutants; Threshold Quantities (TQ).

US State regulations

California Proposition : Not regulated

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Others : Please refer to any other federal, state and local regulations.

16. Other Information

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