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Material Safety Data Sheets

1. Product and Company Identification

Product Name : UVink LH-100 Cyan

Order No. : LH100-C-BA/SPC-0597C/SPC-0659C

Ink Ver. : 1

General Use : Inkjet Ink

Product Description : UV Inkjet Ink

MSDS Number : 031-38U06CC

Manufacture

Company Name : Mimaki Engineering Co., Ltd

Address : 2182-3 Otsu, Shigeno, 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. : +1-678-730-0100 Emergency Telephone No. : +81-268-64-2413

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity – Oral : Category 5
Acute Toxicity – Dermal : Category 5
Skin Corrosion / Irritation : Category 2
Eye Damage / Irritation : Category 2A
Sensitization – Skin : Category 1
Toxic to Reproduction : Category 2

Environmental Hazards

Hazardous to the Aquatic : Category 1

Environment - Acute Hazard

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



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[GHS Label Elements] Symbol







Signal Word Warning

Hazard Statements

H303 May be harmful if swallowed

H313 May be 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

H400 Very toxic to aquatic life

Precautionary Statements

[Prevention]

P201 Obtain special instructions before use.

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

P261 Avoid breathing gas/mist.

P264 Wash hands and eyes thoroughly after handing.

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.

P281 Use personal protective equipment as required.

[Response]

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

P321 Specific treatment (see 4-Response).

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

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.

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



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

[Disposal]

P501 Dispose of contents/container in accordance with

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

HMIS Rating (scale 0-4)

NFPA Rating (scale 0-4)

Health = 2

Flammability= 1

Reactivity = 1

Protective Equipment = G



Health = 2

Flammability = 1

Instability = 1

Special = None



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical
				Formula
1	Acrylic ester	75-90	Registered	Trade secret
2	Photo initiator	10-15	Registered	Trade secret
3	Phthalocyanine blue	0.1-5	Registered	Trade secret
4	Additives	0.1-5	Registered	Trade secret

4. First Aid Measures

Inhalation : If inhaled, immediately remove to fresh air and keep warm and

calm.

If breathing irregularly or not breathing, give artificial respiration

and consult a doctor immediately.

Eye Contact : Flush eyes thoroughly with water for at least 15 minutes.

Remove contact lenses, if present and easy to do.

Consult an ophthalmologist immediately.

Skin Contact : Wash skin thoroughly with plenty of water.

If on clothing, remove immediately contaminated clothing.

The product don't evaporate therefore staying on the skin or clothing

for a long time. If no washing or no taking off the clothing, it may

cause inflammation on the skin.



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Ingestion : Do not induce vomiting.

If swallowed, keep calm and consult a doctor immediately.

Keep from swallowing vomit.

: No relevant information found. Concise statement

on the most

important symptom

Protection To First-Aiders : Wear tools for appropriate protection.

Ventilate.

See section 7 and 8.

: See section 7 and 8. Note To Physician

Fire Fighting Measures

: Foam, carbon dioxide, dry chemical, water spray. Extinguishing Media

Never splash water.

Hazard in fire : Avoid breathing combustion products. Fire Fighting : Wear tools for appropriate protection.

Instructions Eliminate ignition sources.

Stay upwind.

Keep people away.

Keep wetted with water surrounding equipment.

Avoid discharge chemical substances to rivers and sewers.

Accidental Release Measures

Personal Precautions : Wear tools for appropriate protection.

Keep unnecessary and unprotected personnel from entering in

vicinity of spill.

Ventilate. See section 8.

Environmental : Avoid discharge to rivers and environmental effects.

precautions

Methods and materials : Small spills:

for containment and Absorb with nonflammable absorbent such as dry sand and dirt.

cleaning up. Large spills:

Pump spills into a sealing container and remove to safe place.



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Use non-sparking equipment during recovery operation and ground

equipment.

See section 13, Disposal Considerations, for disposing of waste.

Second-accident : Prepare proper fire extinguishers and eliminate all sources of

precautions ignition in vicinity of spill.

Avoid walking on the spills.

Use safety tools to prevent sparks.

7. Handling and Storage

Handling : Handle in well-ventilated area.

Prohibit use of fire, sparks and heat source.

Use antistatic clothing and shoes.

Ground equipment against electrostatics and use spark-proof tools.

Keep from increasing of temperature for flammable substance.

Use local exhaust system and proper protection if working in closed

area.

Use proper protection (gloves, masks, aprons, goggles, etc.)

Storage : Keep container tightly closed, store at cool and aired place, open and

handle carefully.

Protect from light.

Protect from heat/overheating.

Avoid contact with peroxides or other free radical initiators.

8. Exposure Controls / Personal Protection

Exposure Limit Values : Not applicable

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Use explosion-proof equipment if handle in volume.

Use exhaust system to prevent vapor build-up. Keep heat or fire sources from handling area.

If working indoors, use proper equipment to protect workers from direct exposure or use local exhaust system to protect

workers from exposure.

Personal Protection



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Respiratory Protection : Wear protective masks for hazardous materials.

Vapor Respirator

Hand Protection : Wear gloves resistant to organic solvents and chemicals.

Gloves

Eye Protection : Wear chemical goggles.



Skin Protection : Wear clothing to protect skin from direct exposure.

Wear protective clothing resistant to chemicals.

9. Physical and Chemical Properties

Appearance - Physical State : Liquid (25°C)

- Color : Cyan

Odor : Characteristic odor

pH : Not available
Boiling Point / Boiling Range : Not available
Melting Point / Melting Range : Not available
Decomposition Temperature : Not available

Flash Point : 130° C

Auto ignition temperature : Not available
Flammability (Solid, Gas) : Not available
Explosive Properties : Not available
Oxidizing Properties : Not available
Upper / Lower Flammability or : Not available

Explosive Limits

Vapor Pressure

Relative Density $: 1.09(25^{\circ}\mathbb{C})$ Solubility : Not availableWater Solubility : Not availablePartition Coefficient (n-octanol / Water) : Not available



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Viscosity $22\pm3 \text{ mPa}\cdot\text{s} (25^{\circ}\text{C})$

Vapor Density : Not available
Evaporation Rate : Not available
VOC : Not available

Solvent content : Organic solvents $\leq 0.5 \text{Wt}\%$

water amount $\vdots \leq 0.7 \text{Wt}\%$

10. Stability and Reactivity

Reactivity : Excessive heat and cold, sparks, ignition sources, light and high

humidity. May result in polymerization.

Chemical stability : Stable under the usual handling condition.

Possibility of hazardous : See section reactivity.

reactions;

Conditions to avoid Excessive heat and cold, sparks, ignition sources, light and high

humidity.

Incompatible materials : Oxidant, explosive substances, catalysts, alkaline, free radical

initiators.

Hazardous : To burn this product may be produce toxic gases such as CO and

decomposition products. low-molecular-weight monomers.

Other : Plastic and rubbers might be melted.

11. Toxicological Information

Acute Toxicity Oral: Rats LD50 >2,000mg/kg: Category 5

Dermal: Rabbit LD50 >2,000mg/kg: Category 5

Others : Not 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 L(E)C50 <1.00mg/L: Category 1



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Mobility : Not available
Persistence and : Not available

Degradability

Bioaccumulative : Not available

Potential

Other Adverse Effects : Not available

13. Disposal Considerations

- · Have waste inks, containers and other materials disposed by licensed industrial waste disposer.
- Do not dump drainage flushed containers and equipment into sewers, on the ground.
- Dispose of wastes from drainage or incineration, in compliance with the laws and regulations.
- · Adsorb to diatom earth and others to dispose waste inks, and use open incinerator.
- Dispose of wastes by licensed industrial waste disposer to comply with the local laws and regulations.
- Empty inks and other materials out of containers if disposed.

Comply with all USA, national and local regulations.

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

ADR, RID UN Number : 3082

Name and description : ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

Class : 9 Miscellaneous dangerous substances and articles

Packing Group (PG) : III

Hazard label : 9

Hazard Identification No. : 90

Classification code : M6

Transport category : 3

(Tunnel restriction code) (E)

SEA TRANSPORT

IMO/IMDG UN Number : 3082



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Proper shipping name : ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

Class : 9

Packing Group (PG) : III

Hazard label : 9

AIR TRANSPORT

ICAO/IATA UN Number : 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

Class : 9

Packing Group (PG) : Ⅲ Hazard label : 9

Passenger and Cargo Limited : Y964

Quantity Packing Instructions

Packing Instructions (Passenger) : 964
Packing Instructions (Cargo) : 964

15. Regulatory Information

TSCA Status : All components on TSCA INVENTORY.

SARA TitleⅢ

Section 311/312 : Fire Hazard: No

(40 CFR 370) Pressure Hazard: No

Reactivity Hazard: No Immediate Hazard: Yes Delayed Hazard: Yes

California Proposition 65 : This product contains, or may contain, trace quantities of a substance(s) known

to the state of California to cause cancer and/or reproductive toxicity.

16. Other Information

References International Chemical Safety Cards (ICSC)

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.



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

Revision history

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