

SDS No. 037-U060491 First issue: 2013/03/08

Revised: 2024/01/19

Safety Data Sheets

1. Identification

Product Name : UV ink LH-100 Light Cyan

Order No. : LH100-LC-BA/LH100-LC-B2/SPC-0597LC/SPC-0659LC

Ink Ver. : 1

General Use : Ink for ink jet printer

Product Description : UV Inkjet Ink : 037-U060491 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 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

Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity - Oral : Category 4 (~40% unknown)

Skin Corrosion / Irritation : Category 2 Eye Damage / Irritation : Category 1 Sensitization – Skin : Category 1 Carcinogenicity : Category 2 Toxic to Reproduction : Category 1B

Specific Target Organ Toxicity : Category 2 (immune system)

(Repeated Exposure)

Environmental Hazards



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Hazardous to the Aquatic : Category 1

Environment - Acute Hazard

Hazardous to the Aquatic : Category 1

Environment - Long Term Hazard

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

[GHS Label Elements]

Symbol









Signal Word Danger

Hazard Statements

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure (immune system)

H410 Very toxic 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.

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.

(P301+)P330 IF SWALLOWED: Rinse mouth.

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.

(P305+)P310 (IF IN EYES:) Immediately call a POISON CENTER or doctor/physician.

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

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before re-use.



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P391 Collect spillage.

[Storage]

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 = 0

Special = None



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.		
1	Acryl acid ester	30-50	Trade Secret		
2	1,6-Hexanediol diacrylate	30-35	13048-33-4		
3	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	1-10	71868-10-5		
4	pentaerythritol triacrylate	1-10	3524-68-3		
5	1,1,1-trimethylolpropane triacrylate	3-8	15625-89-5		
6	Initiator	3-8	Trade Secret		
7	Additive	0.1-5	Trade Secret		
5	Phthalocyanine series pigment	0.1-2	Trade Secret		

4. First Aid Measures

Inhalation : Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor/physician.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical attention.

Skin Contact : Wash with plenty of soap and water. Take off contaminated clothing

and wash before re-use. If skin irritation or rash occurs: Get medical advice/attention. Contaminated clothing should be removed and

laundered before reuse.

Ingestion : If swallowed, get medical attention.



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Most Important Symptoms/Effects

Acute : skin irritation, eye damage, allergic skin reaction

Delayed : allergic skin reaction, reproductive effects, cancer, immune system

disorders

Indication of Immediate

: Treat symptomatically and supportively.

Medical Attention and Special Treatment Needed, If Needed

Fire Fighting Measures

Flammable Properties : Flash point 137°C

Extinguishing Media : carbon dioxide, regular dry chemical, water spray, alcohol resistant

foam

Unsuitable Extinguishing : Do not scatter spilled material with high-pressure water streams.

Media

Special Hazards Arising : Negligible fire hazard.

from the Chemical

Hazardous Combustion : oxides of carbon, oxides of nitrogen, oxides of sulfur

Products

Fire Fighting : Move container from fire area if it can be done without risk. Do not

Measures scatter spilled material with high-pressure water streams. Cool

> containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or

combustion by-products.

: Wear full protective fire fighting gear including self contained Special Protective

Equipment and breathing apparatus (SCBA) for protection against possible

Precautions for exposure.

Firefighters

Accidental Release Measures

Personal Precautions, : Wear personal protective clothing and equipment, see Section 8.

Protective Equipment Avoid release to the environment.

and Emergency

Procedures



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Methods and Materials for Containment and Cleaning Up : Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray.

Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

7. Handling and Storage

Precautions for Safe

Handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this product. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Conditions for Safe Storage, including any Incompatibilities : Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Keep separated from incompatible substances.

8. Exposure Controls / Personal Protection

Exposure Limit Values : ACGIH, OSHA, and NIOSH have not developed exposure limits for

any of this product's components.

Component Biological : There are no biological limit values for the component(s) of this

Limit Values product.

Exposure Controls

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system. Ensure

Engineering Controls compliance with applicable exposure limits.

Personal Protection

Respiratory : Consult with a health and safety professional for specific respirators

Protection appropriate for your use.



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Hand Protection

: Wear appropriate chemical resistant gloves.



Eye Protection

: Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.



Skin Protection

: Wear appropriate chemical resistant clothing.



9. Physical and Chemical Properties

Appearance - Physical State : Liquid

- 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 : 137° 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

Specific Gravity : 1.08 (25°C)
Solubility : Not available
Water Solubility : Not available



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Partition Coefficient (n-octanol / Water) : Not available

Viscosity $: 22 \pm 3 \text{ mPa} \cdot \text{s} (25^{\circ}\text{C})$

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

10. Stability and Reactivity

Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable under normal conditions of use.

Possibility of Hazardous : Will not polymerize.

Reactions

Conditions to Avoid : Avoid flames, sparks, and other sources of ignition. Containers may

rupture or explode if exposed to heat. Avoid contact with incompatible

materials.

Incompatible Materials : acids, bases, oxidizing materials, peroxides, metal oxides

Hazardous : Combustion: oxides of carbon, oxides of nitrogen, oxides of sulfur

Decomposition

11. Toxicological Information

Acute Toxicity : The component(s) of this material have been reviewed in various

Component Analysis - sources and no selected endpoints have been identified.

LD50/LC50

Information on Likely Routes of Exposure

Inhalation : irritation, nausea, headache, drowsiness, dizziness, loss of

coordination, difficulty breathing, reproductive effects, cancer

Ingestion : irritation, nausea, headache, drowsiness, dizziness, loss of

coordination, unconsciousness

Skin Contact : allergic reactions, irritation, nausea, headache, drowsiness, dizziness

Eye Contact : eye damage

Immediate Effects : allergic skin reaction, skin irritation, eye damage

Delayed Effects : allergic skin reaction, reproductive effects, cancer, immune system

disorders

Medical Conditions : No information available for the product.

Aggravated by Exposure



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Irritation/Corrosivity

: skin irritation, eye damage

Data

Respiratory

: No information available for the product.

Sensitization

Dermal Sensitization

: Available data characterizes components of this product as dermal

sensitization hazards.

Germ Cell Mutagenicity

: No information available for the product.

Carcinogenicity

: Trimethylolpropane triacrylate(CAS No. 15625-89-5)

IARC	Monograph 122 [2019](technical grade)			
IAIC	(Group 2B (possibly carcinogenic to humans))			
OSHA	Hazard Communication Carcinogens: Present			

Reproductive Toxicity

: Available data characterizes components of this product as

reproductive hazards.

Specific Target Organ

: No target organs identified.

Toxicity - Single

Exposure

Specific Target Organ

: Immune system

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 : Very toxic to aquatic life with long lasting effects.

Component Analysis -

: No LOLI ecotoxicity data are available for the component(s) of this

Aquatic Toxicity

product.

Persistence and : Not available

Degradability

Bioaccumulation : Not available
Mobility : Not available
Other Toxicity : Not available



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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.

Disposal Methods : 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

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

US DOT Information

Shipping : Environmentally hazardous substance, liquid, n.o.s.

Name (Contains: 1,6-Hexanediol diacrylate, Acryl acid ester)

UN Number : UN3082

Hazardous Class or : 9

Division

Packing Group (PG) : III Label(s) Required : 9

TDG Information

Shipping : Environmentally hazardous substance, liquid, n.o.s.

Name (Contains: 1,6-Hexanediol diacrylate, Acryl acid ester)

UN Number : UN3082

Hazardous Class or : 9

Division

Packing Group (PG) : III Label(s) Required : 9

Marine Pollutant : YES (Product)

Remarks : Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is

excepted from Dangerous Goods regulations.

Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.



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15. Regulatory Information

U.S. Federal : None of this products components are listed under SARA Sections

Regulations 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR

370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Title III : Acute Health: Yes

Section 311/312 Chronic Health: Yes

Fire: No

Pressure: No Reactive: No

U.S. State Regulations : The following components appear on one or more of the following

state hazardous substances lists:

Component	CA	MA	MN	NJ	PA
1,6-Hexanediol diacrylate	No	No	Yes	No	No
(CAS No. 13048-33-4)	No				

California Proposition 65

: WARNING



Trimethylolpropane triacrylate, Toluene and Methyl Acrylate which are known to the State of California to cause cancer/birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This product can expose you to chemicals including

Canadian WHMIS : None of the product component(s) are listed on the Ingredients

Ingredient Disclosure Disclosure List (IDL).

List (IDL)

Chemical Inventory : Component Analysis - Inventory

Listings

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
1,6-Hexanediol diacrylate (CAS No. 13048-33-4)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Phthalocyanine series pigment	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

16. Other Information



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Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code - International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of LIstsTM - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

Other Information

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