

1. Identification

Product Name	: UV ink LH-100 Cyan	
Order No.	: LH100-C-BA/LH100-C-B2/SPC-0597C/SPC-0659C	
Ink Ver.	:1	
General Use	: Ink for ink jet printer	
Product Description	: UV Inkjet Ink	
SDS Number	: 037-U060487	
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)	
	$+1\ 215\ 207\ 0061$	

2. Hazards Identification

[GHS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Acute Toxicity – Oral	: Category 4 (~50% 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



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 reuse.

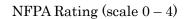
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Product Name: UV ink LH-100 Cyan SDS No. 037-U060487 First issue: 2012/12/03 Revised: 2024/01/19

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).



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	25-30	13048-33-4
3	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	5-15	71868-10-5
4	pentaerythritol triacrylate	3-8	3524-68-3
5	1,1,1-trimethylolpropane triacrylate	3-8	15625 - 89 - 5
6	Initiator	1-10	Trade Secret
7	Additive	0.1-5	Trade Secret
8	Phthalocyanine series pigment	0.1-5	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.	
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		

5. Fire Fighting Measures

Flammable Properties	∶Flash point 130℃
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.
Special Protective	: Wear full protective fire fighting gear including self contained
Equipment and	breathing apparatus (SCBA) for protection against possible
Precautions for	exposure.
Firefighters	

6. Accidental Release Measures

Personal Precautions,	: Wear personal protective clothing and equipment, see Section 8.
Protective Equipment	Avoid release to the environment.

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and Emergency	
Procedures	
Methods and Materials	Eliminate all ignition sources if safe to do so. Stop leak if possible
for Containment and	without personal risk. Reduce vapors with water spray.
Cleaning Up	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	
Conditions for Safe Storage, including any Incompatibilities	 the environment. 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

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Respiratory : C Protection a Vapor Respirator Hand Protection : V Cloves Eye Protection : V Safety Classes Skin Protection : V Protective Apron

: Consult with a health and safety professional for specific respirators appropriate for your use.

: Wear appropriate chemical resistant gloves.

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

: 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	n Temperature	: Not available
Flash Point		$: 130^{\circ}\mathrm{C}$
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 Lim	its	
Vapor Pressur	e	
Specific Gravity		: 1.10 (25°C)

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Solubility	: Not available
Water Solubility	: Not available
Partition Coefficient (n-octanol / Water)	: Not available
Viscosity	$:22\pm3$ mPa · s (25°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 Ro	utes 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	n available for the product.
Aggravated by Exposure		
Irritation/Corrosivity	skin irritation	, eye damage
Data		
Respiratory	: No information	n available for the product.
Sensitization		
Dermal Sensitization	: Available data	characterizes components of this product as dermal
	sensitization h	azards.
Germ Cell Mutagenicity	: No information	n available for the product.
Carcinogenicity	: Trimethylolpro	opane triacrylate(CAS No. 15625-89-5)
	IARC	Monograph 122 [2019](technical grade)
	IARC	(Group 2B (possibly carcinogenic to humans))
	OSHA	Hazard Communication Carcinogens: Present
Reproductive Toxicity	: Available data	characterizes components of this product as
	reproductive h	azards.
Specific Target Organ	: No target orga	ins identified.
Toxicity - Single		
Exposure		
Specific Target Organ	: Immune syste	m
Toxicity - Repeated		
Exposure		
Aspiration Hazard	: Not expected t	o 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

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)

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Remarks	: Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is
	excepted from Dangerous Goods regulations.
	Refer to ICAO/IATAA197, IMDG 2.10.2.7, ADR SP 375.

15. Regulatory Information

U.S. Federal Regulations	3(37)2/304 (70.21), S	40 CFR	355 Ap ection 3	pendix 13 (40 (nts are l A), SAF CFR 372 A proces	RA Sect 2.65), C	ion 311/ ERCLA	/312 (40	
SARA TitleIII	: A	cute He	alth: Ye	s						
Section 311/312	\mathbf{C}	hronic l	Health:	Yes						
	\mathbf{F}	ire: No								
	P	ressure	No							
	R	eactive:	No							
U.S. State Regulations	: T	he follo	wing co	mponen	ts appe	ear on or	ne or m	ore of t	he follo	wing
	st	ate haz	ardous	substan	ces list	s:				
		Com	ponent		CA	M	A	MN	NJ	PA
	1,6-	Hexane	diol dia	crylate	No	N		Vea	Na	Na
	(C	AS No.	13048-	33-4)	No) N	0	Yes	No	No
California Proposition 65		: W	ARNIN	G						
		Tri: wh: birt	methylo ich are i th defec	olpropar known t	ne triac to the S ner rep:		Coluene Califorr	and Mo nia to ca	ethyl Ao ause car	
Canadian WHMIS	: N	one of t	he prod	uct com	ponent	:(s) are l	isted or	n the In	gredier	its
Ingredient Disclosure			re List (-				-	
List (IDL)										
Chemical Inventory	: C	ompone	ent Anal	lysis - Ir	nventor	·у				
Listings										
Component		US	CA	EU	AU	PHIL	JP	KR	CN	NZ
1,6-Hexanediol diacry	late	V	DOI	EIN	V	V	V	V	V	V
(CAS No. 13048-33-	4)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Phthalocyanine seri		Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes



Safety Data	Sheets
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pigment

16. Other Information

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 LIsts[™] - 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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