

# Safety Data Sheets

## 1. Identification

Product Name : UV ink LH-100 Clear  
Order No. : LH100-CL-BA/LH100-CL-B2/SPC-0597CL/SPC-0659CL  
Ink Ver. : 1  
General Use : Ink for ink jet printer  
Product Description : UV Inkjet Ink  
SDS Number : 037-U060494  
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 : 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA  
30542, U.S.A.  
Telephone No. : +1-678-730-0100  
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

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

## Safety Data Sheets

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

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.

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]

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.

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).



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Product Name: UV ink LH-100 Clear

SDS No. 037-U060494

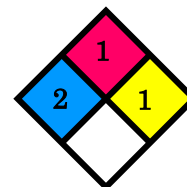
First issue: 2012/12/03

Revised: 2025/04/07

# Safety Data Sheets

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	40-50	Trade Secret
2	1,6-Hexanediol diacrylate	30-35	13048-33-4
3	Diphenyl (2,4,6, trimethylbenzoyl) phosphine oxide	10-15	75980-60-8
4	pentaerythritol triacrylate	3-8	3524-68-3
5	1,1,1-trimethylolpropane triacrylate	3-8	15625-89-5
8	Additive	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 Medical Attention and Special Treatment** : Treat symptomatically and supportively.

# Safety Data Sheets

Needed, If Needed

## 5. Fire Fighting Measures

Flammable Properties	: Flash point 126°C
Extinguishing Media	: carbon dioxide, regular dry chemical, water spray, alcohol resistant foam
Unsuitable Extinguishing Media	: Do not scatter spilled material with high-pressure water streams.
Special Hazards Arising from the Chemical	: Negligible fire hazard.
Hazardous Combustion Products	: oxides of carbon, oxides of nitrogen
Fire Fighting Measures	: Move container from fire area if it can be done without risk. Do not 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 Equipment and Precautions for Firefighters	: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## 6. Accidental Release Measures

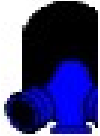

Personal Precautions, Protective Equipment and Emergency Procedures	: Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.
Methods and Materials for Containment and Cleaning Up	: Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray. <b>Small spills:</b> Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. <b>Large spills:</b> Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

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### 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 Limit Values	: There are no biological limit values for the component(s) of this product.
Exposure Controls	
Occupational Exposure Controls	
Appropriate Engineering Controls	: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.
Personal Protection	
Respiratory Protection	: Consult with a health and safety professional for specific respirators appropriate for your use.
 Hand Protection	: Wear appropriate chemical resistant gloves.
 Eye Protection	: Wear splash resistant safety goggles with a faceshield. Provide an

## Safety Data Sheets

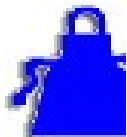


emergency eye wash fountain and quick drench shower in the immediate work area.

**Safet**

Skin Protection

: Wear appropriate chemical resistant clothing.



### 9. Physical and Chemical Properties

Appearance	- Physical State	: Liquid
	- Color	: Pale yellow
Odor		: Characteristic odor
pH		: Not available
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Decomposition Temperature		: Not available
Flash Point		: 126°C
Auto ignition temperature		: Not available
Flammability (Solid, Gas)		: Not available
Explosive Properties		: Not available
Oxidizing Properties		: Not available
Upper / Lower Flammability or Explosive Limits		: Not available
Vapor Pressure		
Specific Gravity		: 1.09 (25°C)
Solubility		: Not available
Water Solubility		: Not available
Partition Coefficient (n-octanol / Water)		: Not available
Viscosity		: 23 ± 3 mPa · s (25°C)
Vapor Density		: Not available
Evaporation Rate		: Not available
VOC		: Not available

### 10. Stability and Reactivity

## Safety Data Sheets

Reactivity	: No reactivity hazard is expected.
Chemical Stability	: Stable under normal conditions of use.
Possibility of Hazardous Reactions	: Will not polymerize.
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 Decomposition	: Combustion: oxides of carbon, oxides of nitrogen

### 11. Toxicological Information

Acute Toxicity	: The component(s) of this material have been reviewed in various sources and no selected endpoints have been identified.
Component Analysis - LD50/LC50	
Information on Likely Routes of Exposure	
Inhalation	: irritation, nausea, headache, drowsiness, dizziness, loss of coordination, difficulty breathing, cancer, reproductive effects
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, cancer, reproductive effects, immune system disorders
Medical Conditions Aggravated by Exposure	: No information available for the product.
Irritation/Corrosivity Data	: skin irritation, eye damage
Respiratory Sensitization	: No information available for the product.
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)

## Safety Data Sheets

IARC	Monograph 122 [2019](technical grade) (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 - Aquatic Toxicity : No LOLI ecotoxicity data are available for the component(s) of this product.
- Persistence and Degradability : Not available
- 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 Numbers : The U.S. EPA has not published waste numbers for this product's components.

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Disposal of Contaminated Packaging : Empty containers may contain product residue. Dispose in accordance with all applicable regulations.

### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

#### US DOT Information

Shipping Name : Environmentally hazardous substance, liquid, n.o.s.  
(Contains: 1,6-Hexanediol diacrylate, Acryl acid ester)  
UN Number : UN3082  
Hazardous Class or Division : 9  
Packing Group (PG) : III  
Label(s) Required : 9

#### TDG Information

Shipping Name : Environmentally hazardous substance, liquid, n.o.s.  
(Contains: 1,6-Hexanediol diacrylate, Acryl acid ester)  
UN Number : UN3082  
Hazardous Class or Division : 9  
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/IATAA197, IMDG 2.10.2.7, ADR SP 375.

### 15. Regulatory Information

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

# Safety Data Sheets

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 (CAS No. 13048-33-4)	No	No	Yes	No	No

California Proposition 65        : **WARNING**



This product can expose you to chemicals including 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](http://www.P65Warnings.ca.gov).

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
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (CAS No. 75980-60-8)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

## 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



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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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