

SDS No. 037-U010384 First issue: 2008/06/20

Revised: 2019/11/12

# Safety Data Sheets

### 1. Identification

Product Name : UV ink Clear Liquid

Order No. : SPC-0371CL
General Use : For ink jet

Product Description : UV curable ink SDS Number : 037-U010384

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** 

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 2

Specific Target Organ Toxicity : Category 3 (respiratory tract irritation)

(Single Exposure)

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** 

H315 Cause skin irritation

H319 Cause serious eye irritation

H335 May cause respiratory irritation

## **Precautionary Statements**

[Prevention]

P261 Avoid breathing gas/mist.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

[Response]

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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

P332+P313 If skin irritation 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]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

[Disposal]

P501 Dispose of contents/container in accordance with

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

## Other Information

[Hazards not otherwise classified (HNOC)]

Not Applicable

[Other hazards]

- · Toxic to aquatic life with long lasting effects
- · Toxic to aquatic life

[Unknown Acute Toxicity]

86% of the mixture consists of ingredient(s) of unknown toxicity



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HMIS Rating (scale 0-4)

NFPA Rating (scale 0-4)

Health = 2

Flammability= 1

Reactivity = 0

Protective Equipment = X



Health = 2

Flammability = 1

Instability = 0

Special = -



CANADIAN WHMIS SYMBOLS: Non-controlled

## 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Monomers	65-75	Trade Secret
2	Isooctyl acrylate (structure unspecified)	5-15	29590-42-9
3	Oligomer	5-15	Trade Secret
4	Photoinitiator	5-10	Trade Secret
5	Additives	0.1-1	Trade Secret

### 4. First Aid Measures

General advice : If symptoms persist, call a physician.

Inhalation : Move to fresh air in case of accidental inhalation of vapors. If

symptoms persist, call a physician.

Eye Contact : Rinse immediately with plenty of water and seek medical advice.

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

Keep eye wide open while rinsing.

Skin Contact : If skin irritation persists, call a physician. Wash off immediately

with soap and plenty of water. Wash contaminated clothing before

reuse.

Ingestion : If swallowed, call a poison control center or physician immediately.

Do not induce vomiting without medical advice. Never give anything

by mouth to an unconscious person.

Protection To First-Aiders : Use personal protective equipment as required.



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Most important symptoms and effects, both acute and delayed

: Not Available Symptoms

Indication of any immediate medical attention and special treatment needed

Note to physicians : Treat symptomatically.

## Fire Fighting Measures

: Flash point ; 129  $^{\circ}$ C / 264  $^{\circ}$  F Flammable Properties

Explosion data; No data available

Extinguishing Media Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable Extinguishing : Straight streams.

Media

Specific hazards arising : In the event of fire and/or explosion do not breathe fumes. May

from the chemical cause sensitization by inhalation and skin contact. Thermal

decomposition can lead to release of irritating and toxic gases and

vapors.

Fire Fighting : As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and full Instructions

protective gear.

## Accidental Release Measures

Personal Precautions : Use personal protection recommended in Section 8. Avoid contact

with eyes and skin. Keep people away from and upwind of spill/leak.

Environmental : Collect spillage. Prevent entry into waterways, sewers, basements

precautions or confined areas. Do not flush into surface water or sanitary sewer

system.

Methods for containment : Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers.

Methods for cleaning up : Use personal protective equipment as required. Soak up with inert

absorbent material. Pick up and transfer to properly labeled

containers. Clean contaminated surface thoroughly.



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## Handling and Storage

Handling : Use personal protection recommended in Section 8. Avoid contact

with skin and eyes. Do not breathe gas/mist.

Storage : Keep out of the reach of children. Keep in properly labeled containers.

Keep containers tightly closed in a cool, well-ventilated place. Avoid

direct sunlight or high temperature.

Incompatible materials : Strong oxidizing agents.

## Exposure Controls / Personal Protection

: This product, as supplied, does not contain any hazardous materials **Exposure Limit Values** 

with occupational exposure limits established by the region specific

regulatory bodies.

**Exposure Controls** 

Occupational Exposure Controls

**Engineering Controls** : Showers

**Evewash stations** 

Ventilation systems.

Personal Protection

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

Protection appropriate for your use.

**Hand Protection** 

: Gloves made of plastic or rubber.



Eye Protection

: Tight sealing safety goggles. Face protection shield.





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Skin Protection

: Suitable protective clothing. Apron. Gloves made of plastic or rubber.



General Hygiene Considerations

: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Wash face, hands and any exposed skin thoroughly after handling.

**Environmental Exposure Controls** 

: Not available

## 9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : Clear

Odor : Characteristic odor

Boiling Point / Boiling Range : Not Available

Melting Point / Melting Range : Not Available

Decomposition Temperature : Not Available

Flash Point : 129°C / 264° F (Cleveland Open Cup)

Auto ignition temperature : Not Available
Upper / Lower Flammability or : Not Available

**Explosive Limits** 

Vapor Pressure : Not Available

Specific Gravity : 1.0-1.1g/cm<sup>3</sup> (25 °C)

Solubility : Not Available

Water Solubility : Immiscible in water Viscosity :  $<30 \text{ mPa} \cdot \text{s} (25 ^{\circ}\text{C})$ 

VOC : Not Available



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## 10. Stability and Reactivity

Conditions to Avoid : Extremes of temperature and direct sunlight.

Reactivity : No reactivity under the normal usage

Stability : Stable under recommended storage conditions.

Materials to Avoid : Strong oxidizing agents.

Possibility of Hazardous : None under normal processing.

Reactions

Decomposition Products : Thermal decomposition can lead to release of irritating and toxic

gases and vapors.

## 11. Toxicological Information

Acute Toxicity : 83% of the mixture consists of ingredient(s) of unknown toxicity

Chaminal Name	Oral	Dermal	Inhalation
Chemical Name	LD50	LD50	LC50
Isooctyl acrylate	> 5 g/kg		
(structure unspecified)	(Rat)	-	-

Eye Irritation : Category 2 as a product.
Skin Irritation : Category 2 as a product.

Sensitization : Not Available

Specific Target Organ : Category 3 (respiratory tract irritation) as a product.

Toxicity(Single Exposure)

Chronic Toxicity : Avoid repeated exposure.

Carcinogenicity : This product does not contain any carcinogens or potential

carcinogens as listed by OSHA, IARC or NTP.

### 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.



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**Ecotoxicity** : Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

86% of the mixture consists of component(s) of unknown hazards to

the aquatic environment

Chemical Name	Fish	Crustaces
Incontrol a correlate	0.67: 96 h Pimephales	0.4: 48 h Daphnia
Isooctyl acrylate	promelas mg/L	magna mg/L
(structure unspecified)	LC50	EC50

Persistence and : Not Available

Degradability

Bioaccumulative : Not Available

Potential

Other Adverse Effects : Not Available

## 13. Disposal Considerations

Disposal should be in accordance with applicable regional, national and local laws and 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.

## Us Department of Transportation (DOT)

**UN Number** : UN3082

**Proper Shipping** : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl

Name acrylate)

: 9 **Hazardous Class** Packing Group (PG) : III

**Special Provisions** : 8, 146, 173, 335, IB3, T4, TP1, TP29

Marine pollutant : Not Applicable

**Emergency Response** : 171

Guide Number

Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.

(Isooctyl acrylate,), 9, III



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TDG

**UN Number** : UN3082

**Proper Shipping** : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl

Name acrylate)

**Hazardous Class** : 9 Packing Group (PG) : III**Special Provisions** : none

Marine pollutant : Not regulated

Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.

(Isooctyl acrylate), 9, III

MEX

**UN Number** : UN3082

: Environmentally hazardous substance, liquid, n.o.s. (Isooctyl **Proper Shipping** 

Name acrylate)

: 9 **Hazardous Class Special Provisions** : none Packing Group (PG) : III

Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.

(Isooctyl acrylate), 9, III

**IATA** 

**UN Number** : UN3082

**Proper Shipping** Environmentally hazardous substance, liquid, n.o.s. (Isooctyl

Name acrylate)

**Hazardous Class** : 9 Packing Group (PG) : III**ERG** Code : 9L

**Special Provisions** : A97, A158

Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.

(Isooctyl acrylate,), 9, III

Sea Transport (IMDG)

**UN Number** : UN3082

**Proper Shipping** : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl

Name acrylate)

**Hazardous Class** :9 Packing Group (PG) : III

EmS-No. : F-A, S-F **Special Provisions** : 274,335



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Marine Pollutant : This material meets the definition of a marine pollutant

Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.

(Isooctyl acrylate), 9, III

Environmental hazard : Yes

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.

## 15. Regulatory Information

U.S. Federal Regulations

CERCLA : This material, as supplied, does not contain any substances regulated

Reportable Quantity as hazardous substances under the Comprehensive Environmental

(40 CFR 302) Response Compensation and Liability Act (CERCLA) (40 CFR 302) or

the Superfund Amendments and Reauthorization Act (SARA) (40

CFR 355). There may be specific reporting requirements at the local,

regional, or state level pertaining to releases of this material

SARA TitleIII

Section 311/312 : Acute health hazard Yes

(40 CFR 370) Chronic Health Hazard No.

Fire hazard No

Sudden release of pressure hazard No

Reactive Hazard No

Section 313 : Section 313 of Title III of the Superfund Amendments and

(40 CFR 372) Reauthorization Act of 1986 (SARA). This product does not contain

any chemicals which are subject to the reporting requirements of the

Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act) : This product does not contain any substances regulated as pollutants

pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

U.S. State Regulations

California Proposition : This product does not contain any Proposition 65 chemicals

65

U.S.State : This product does not contain any substances regulated by state

Right-to-Know right-to-know regulations



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Regulations

U.S.EPA Label Information

EPA Pesticide : Not Applicable

Registration Number

Canada : This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations (CPR) and the SDS

contains all the information required by the CPR

WHMIS Hazard Class : Non-controlled

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

### 16. Other Information

References 1) LOLI Database (ChemADVISOR, Inc.)

2) Japan National Institute of Technology and Evaluation

3) EU CLP(1272/2008)Annex VI Table 3.1

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