

SDS No. 037-U111380 First issue: 2016/04/05

Revised: 2020/01/07

## Safety Data Sheets

### Identification

**Product Name** : UV ink LUS-120 Light Cyan Order No. : LUS12-LC-BA/LUS12-LC-B2

General Use : Ink jet printing ink

Product Description : UV Inkjet Ink SDS Number : 037-U111380

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 NE, 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

[HCS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity - Oral : Category 4 Skin Corrosion / Irritation : Category 2 Eye Damage / Irritation : Category 1 Sensitization - Skin : Category 1A Toxic to Reproduction : Category 1B

Specific Target Organ Toxicity : Category 1 (Liver, respiratory tract)

(Repeated Exposure)

**Environmental Hazards** 

Hazardous to the Aquatic : Category 2

Environment - Acute Hazard



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Hazardous to the Aquatic : Category 2

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

H318 Cause serious eye damage

H317 May cause an allergic skin reaction

H360 May damage fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure (Liver, respiratory tract)

H411 Toxic to aquatic life with long lasting effects

#### **Precautionary Statements**

#### [Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's manual instructions before use.

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

P260 Do not breathe gas/mist.

P264 Wash hands and eyes 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.

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

P273 Avoid release to the environment.

### [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.

P391 Collect spillage.

### [Storage]

P405 Store locked up.

#### [Disposal]

P501 Dispose of contents/container in accordance with



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

[Other Information]

Hazards not otherwise classified (HNOC)

Not Applicable

Unknown Acute Toxicity

1.0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

26.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

HMIS Rating (scale 0-4)

NFPA Rating (scale 0-4)

Health = 2

Flammability= 1

Reactivity = 0

Protective Equipment = X



Health = 2Flammability = 1Instability = 0Special = -



### 3. Composition / Information on Ingredients

Common name and synonyms: No data available

Pure substance/mixture: Mixture

No	Chemical Name	Wt%	CAS No.
1	2-Propenoic acid, 2-phenoxyethyl ester		48145-04-6
2	2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester		2399-48-6
3	2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	10-20	5888-33-5
4	2H-Azepin-2-one, 1-ethenylhexahydro-	5-15	2235-00-9
5	Acrylate monomer	5-15	Trade Secret
6	Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	5-15	75980-60-8
8	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	1-5	162881-26-7
9	Additives	<1	Trade Secret
10	Photoinitiator	<1	Trade Secret
	C.I. Pigment Blue 15	<1	147-14-8
11	Others	<1	Trade Secret



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### 4. First Aid Measures

[First aid measures]

General advice : Show this safety data sheet to the doctor in attendance. Do not delay

care and transport of a seriously injured person. IF exposed or

concerned: Get medical advice/attention.

Inhalation : Move victim to fresh air. Get medical attention.

: IF IN EYES: Rinse cautiously with water for several minutes. **Eye Contact** 

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

Get immediate medical advice/attention.

Immediately call a POISON CENTER or doctor/physician.

Skin Contact : Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes. Get immediate medical

advice/attention.

Ingestion : Rinse mouth thoroughly with water. Never give anything by mouth

> to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention.

Self-protection of the first

aider

: Wear personal protective clothing (see section 8). Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with

a one-way valve or other proper respiratory medical device.

[Most important symptoms and effects, both acute and delayed]

Symptoms : Prolonged contact may cause redness and irritation. May cause

> blindness. Coughing and/ or wheezing. Hives. Itching. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Rashes.

[Indication of any immediate medical attention and special treatment needed]

Note To Physician : May cause sensitization of susceptible persons.

### Fire Fighting Measures

: Flash point : 95°C/203° F Flammable Properties

Extinguishing Media : Use CO2, dry chemical, or foam. Use extinguishing measures that

are appropriate to local circumstances and the surrounding

environment.

Unsuitable Extinguishing : Do not use a solid water stream as it may scatter and spread fire.

Media



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Specific hazards arising

from the chemical

Risk of ignition. The product causes irritation of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Product is or contains a sensitizer. The product causes burns of eyes, skin and mucous

membranes.

: Sensitivity to Mechanical Impact; None. Explosion data

Sensitivity to Static Discharge; Yes.

Protective equipment and

precautions for

firefighters

: Firefighters should wear self-contained breathing apparatus and

full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental Release Measures

[Personal precautions, protective equipment and emergency procedures]

**Personal Precautions** : Evacuate personnel to safe areas. Ensure adequate ventilation,

> especially in confined areas. Keep people away from and upwind of spill/leak. Use personal protection recommended in Section 8. Avoid

contact with skin, eyes or clothing.

Other Information : Refer to protective measures listed in Sections 7 and 8.

[For emergency responders]

: Use personal protection recommended in Section 8.

[Environmental precautions]

Environmental : Prevent entry into waterways, sewers, basements or confined areas.

precautions

[Methods and material for containment and cleaning up]

Methods for containment : Prevent further leakage or spillage if safe to do so. Cover with

> plastic sheet to prevent spreading. 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. Clean contaminated

surface thoroughly. Pick up and transfer to properly labeled

containers. Take up with sand or other non-combustible absorbent

material and place into containers for later disposal.

Prevention of secondary

hazards

: Local authorities should be advised if significant spillages cannot be

contained.

### 7. Handling and Storage

[Precautions for safe handling]



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Advice on safe handling : Handle in accordance with good industrial hygiene and safety

> practice. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Do not eat, drink

or smoke when using this product.

[Conditions for safe storage, including any incompatibilities]

**Storage Conditions** : Keep away from heat. Keep container tightly closed. Keep in properly

labeled containers. Store locked up.

Incompatible materials : Strong oxidizing agents. Finely powdered metals.

### Exposure Controls / Personal Protection

[Control parameters]

**Exposure Limit Values** 

No	Chemical Name	OSHA PEL	ACGIH	NIOSH IDLH
1	C.I. Pigment Blue 15 147-14-8	-	TWA: 1 mg/m³ Cu dust and mist	IDLH: 100 mg/m³ Cu dust and mist TWA: 1 mg/m³ Cu dust and mist
2	Caprolactam 105-60-2	(vacated) TWA: 1 mg/m3 dust (vacated) TWA: 5 ppm vapor (vacated) TWA: 20 mg/m3 vapor (vacated) STEL: 3 mg/m3 dust (vacated) STEL: 10 ppm vapor (vacated) STEL: 40 mg/m3 vapor	TWA: 5 mg/m3 inhalable fraction and vapor	TWA: 1 mg/m3 dust TWA: 0.22 ppm vapor TWA: 1 mg/m3 vapor STEL: 3 mg/m3 dust STEL: 0.66 ppm vapor STEL: 3 mg/m3 vapor

Caprolactam is non-intentionally added substance, contains less than 1% in the product.

[Appropriate engineering controls]

**Engineering Controls** : Showers

Eyewash stations

Ventilation systems.

[Individual protection measures, such as personal protective equipment]

Respiratory Protection : Vapor mask.



Glove : Impervious gloves.

Recommendations



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Eye /Face : Face protection shield. Tight sealing safety goggles.

Protection

Safety Glasses

Skin Protection : Rubber boots. Long sleeved clothing. Impervious clothing. Chemical

resistant apron.

General Hygiene

Considerations recommended. Do not eat, drink or smoke when using this product.

Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapors/spray.

: Regular cleaning of equipment, work area and clothing is

### 9. Physical and Chemical Properties

[Information on basic physical and chemical properties]

Appearance - Physical State : liquid

- Color : blue

Odor
Odor Threshold

PH

No data available

No data available

Melting point/freezing point

No data available

No data available

No data available

No data available

Flash point : 95 °C / 203 °F (Acceptance by the lowest flash point)

Evaporation rate : No data available Flammability (solid, gas) : No data available

Flammability Limits in Air

Upper flammability limits : No data available
Lower flammability limit : No data available
Vapor Pressure : No data available
Vapor density : No data available



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Specific gravity : 1.0-1.1

Solubility(ies) : Immiscible in water Partition coefficient : No data available : No data available Autoignition temperature Decomposition temperature : No data available : No data available Kinematic viscosity Dynamic viscosity  $: 7-12 \text{ mPa} \cdot \text{s}(25 \text{ deg.C})$ 

[Other Information]

Molecular weight : No data available Explosive properties : No data available Oxidizing properties : No data available Softening point : No data available VOC Content (%) : No data available : No data available Density : No data available Bulk density

### 10. Stability and Reactivity

: No information available. Reactivity

Chemical Stability : Stable under the normal storage and use.

Possibility of Hazardous : No information available.

Reactions

Hazardous polymerization : None under normal processing.

Conditions to Avoid : Heat, flames and sparks.

Incompatible Materials : Strong oxidizing agents. Finely powdered metals.

Hazardous Decomposition : None known based on information supplied.

**Products** 

### 11. Toxicological Information

[Information on likely routes of exposure]

[Product Information]

Inhalation : Irritating to respiratory system.

Eye contact : Irritating to eyes Causes serious eye damage May cause irreversible

damage to eves.

Skin Contact : Harmful in contact with skin Causes skin irritation Repeated or

prolonged skin contact may cause allergic reactions with susceptible



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persons

Ingestion : Harmful if swallowed Ingestion may cause irritation to mucous

membranes May be harmful if swallowed and enters airways.

[Information on toxicological effects]

: Coughing and/ or wheezing. May cause redness and tearing of the Symptoms

eyes Redness Burning. May cause blindness. Hives Itching. May

cause allergic skin reaction Rashes.

[Numerical measures of toxicity]

[Acute toxicity]

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Product	ATEmix = 1911.5 mg/kg	ATEmix = 2246.5  mg/kg	-

[Component Information]

In calculating the ATE for product classification, the converted acute toxicity value estimate is used. [Unknown acute toxicity]

1.0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

26.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

[Delayed and immediate effects as well as chronic effects from short and long-term exposure]

Skin corrosion : Based on available data, the classification criteria are not met.

In Vitro Acute Dermal Corrosivity Study Episkin test: GLP OECD

TG431. In this in vitro EPISKIN model test with similar product, the

result indicates that the product is non-corrosive to the skin.

: Classification is based on mixture calculation methods based on Skin irritation

component data. Irritating to skin.

Serious eye damage/eye

irritation

sensitization

: Classification is based on mixture calculation methods based on

component data. Risk of serious damage to eyes.

Respiratory or skin : Classification is based on mixture calculation methods based on

component data. May cause sensitization by skin contact. May cause

sensitization in susceptible persons.

: Classification is based on mixture calculation methods based on Germ cell mutagenicity

component data. Based on available data, the classification criteria

are not met.

: Classification is based on mixture calculation methods based on Carcinogenicity



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component data. Based on available data, the classification criteria

are not met.

Reproductive toxicity : Classification is based on mixture calculation methods based on

component data. Contains material that may cause adverse

reproductive effects

STOT - single exposure : Classification is based on mixture calculation methods based on

component data. Based on available data, the classification criteria

are not met.

STOT - repeated : Classification is based on mixture calculation methods based on

component data. Causes damage to organs through prolonged or exposure

repeated exposure.

Aspiration hazard : Classification is based on mixture calculation methods based on

component data. Based on available data, the classification criteria

are not met.

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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
C.I. Pigment Blue 15	-	LC50(48h, static): > 100 mg/L (Oryzias latipes)	-	-
Caprolactam	EC50 (72h): = 130 mg/L  (Desmodesmus subspicatus)  EC50 (96h): = 160 mg/L  (Desmodesmus subspicatus)  EC50 (72h): 4320 - 4800 mg/L (Pseudokirchneriella subcapitata)	LC50(96h, static): = 930  mg/L (Lepomis  macrochirus)  LC50(96h, static): = 1400  mg/L (Pimephales  promelas)	-	EC50(48h): 828 - 2920 mg/L (Daphnia magna) EC50(48h): > 500 mg/L (Daphnia magna Straus)

Caprolactam is non-intentionally added substance, contains less than 1% in the product.

Persistence and

: No data available.

degradability



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Bioaccumulation : No data available.

Mobility : No data available.

Other adverse effects : No data available.

### 13. Disposal Considerations

[Waste treatment methods]

Disposal Methods : 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 of wastes : Disposal should be in accordance with applicable regional, national

and local laws and regulations.

Contaminated : Disposal should be in accordance with applicable regional, national

packaging and local laws and regulations. Improper disposal or reuse of this

container may be dangerous and illegal.

[California Hazardous Waste Status]

Chemical Name	California Hazardous Waste Status
C.I. Pigment Blue 15	Toxic
147-14-8	

### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

[DOT]

UN/ID no : UN3082

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

(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester)

Hazard Class : 9
Packing Group : III

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

Emergency Response Guide : 171

Number

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

(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III



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[TDG]

UN/ID no : UN3082

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

(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester)

Hazard Class : 9
Packing Group : III

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

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

(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

[MEX]

UN/ID no : UN3082

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

(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester)

Hazard Class : 9

Special Provisions : 274, 331, 335

Packing Group : III

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

(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

[IATA]

UN/ID no : UN3082

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

(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester)

Hazard Class : 9 Packing Group : III

Special Provisions : A197 \*1

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

(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

[IMDG]

UN/ID no : UN3082

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

(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,



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exo-, 2-Propenoic acid, 2-phenoxyethyl ester)

Hazard Class : 9
Packing Group : III

EmS-No : F-A, S-F Special Provisions : 2.10.2.7 \*1

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

: Yes

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

(2-Propenoic acid, 1,7,7- trimethylbicyclo[2.2.1]hept-2-yl ester,

exo-, 2-Propenoic acid, 2-phenoxyethyl ester), 9, III

Environmental hazard

\*1: Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations - see UN Special Provision.

### 15. Regulatory Information

#### [International Inventories]

TSCA-US-Toxic : All ingredients of this product are registered on TSCA Active

Substances Control inventory.

Act

TSCA 5e-US-Toxic : This product contains components registered as TSCA 5(e)

Substances Control

Act Section 5e

DSL-Canada-Domestic : Not listed

**Substances List** 

[US Federal Regulations]

### [SARA313]

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No.	weight-%	SARA 313 - Threshold Values %
2-Propenoic acid, 2-phenoxyethyl ester - 48145-04-6 (Glycol ethers)	48145-04-6	20-30	1.0

### [SARA 311/312 Hazard Categories]

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications

[CWA (Clean Water Act)]



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This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable	CWA - Toxic	CWA - Priority	CWA - Hazardous
Chemical Name	Quantities	Pollutants	Pollutants	Substances
C.I. Pigment Blue 15		<b>&gt;</b>		
147-14-8		^		

### [CERCLA]

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental 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.

### [US State Regulations]

California : WARNING

Proposition 65

**^** 

This product can expose you to chemicals including Toluene and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information

go to www.P65Warnings.ca.gov.

EPA Pesticide : Not Applicable.

Registration Number

### 16. Other Information

[Reference]

References : LOLI Database (ChemADVISOR, Inc.)

Hazard Communication Standard(HCS2012)□ 29 CFR 1910.1200

The reference on GHS : EU CLP(1272/2008)Annex VI Table 3

classification results IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

Other Information : This formulation contains a maximum of 1% of a SNUR chemical

which is prohibited from release to water. The product or its wastes should either be pretreated before discharge to sewerage systems according to federal regulations or disposed of by incineration or other

state or federal approved methods.

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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