

SDS No. 037-U193158 First issue: 2017/09/13

Revised:

Safety Data Sheets

1. Identification

Product Name : LUS-175 Light Cyan

Order No. : LU175-LC-BA

General Use : Ink jet printing ink

Product Description : UV Inkjet ink SDS Number : 037-U193158

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 Singapore

Company Name : MIMAKI SINGAPORE PTE. LTD.

Address : 31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

Telephone No. : +65-6508-2789 Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

 $\begin{array}{lll} {\rm Sensitization-Skin} & : {\rm Category} \ 1 \\ {\rm Toxic \ to \ Reproduction} & : {\rm Category} \ 2 \\ \end{array}$

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

[Label Elements]

Symbol



Signal Word Warning

Hazard Statements

H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child



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Precautionary Statements

[Prevention]

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

P281 - Use personal protective equipment as required

[Response]

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P308 + P313 - IF exposed or concerned: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

[Other hazards]

Not Applicable.

[Hazards not otherwise classified (HNOC)]

Not Applicable.

3. Composition / Information on Ingredients

Substance/mixture: mixture

Chemical identity: No information available

Chemical Name	CAS No	EC No	weight-%	
Monomers	CBI		80-90	
Diphenyl(2,4,6-trimethylbenzoyl)ph	75980-60-8	278-355-8	5-15	
osphine oxide	79900-00-0	276-399-6	9-19 	
Phosphine oxide,	162881-26-7	423-340-5	1-5	
phenylbis(2,4,6-trimethylbenzoyl)-	102001-20-7	425-540-5	1-9	
Additives	CBI		<1	
Photoinitiator	CBI		<1	
Copper compounds	CBI		<1	
Others	CBI		<1	

4. First Aid Measures

[Description of first aid measures]

General advice : If symptoms persist, call a physician. Do not breathe

dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on

clothing.

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

symptoms persist, call a physician.

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

with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse.



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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.

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.

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

Symptoms : No data available.

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

Self-protection of the first : Use personal protective equipment as required.

aider

Note to physicians : May cause sensitization of susceptible persons.

Fire Fighting Measures

: Flash Pont, 95° C / 203° F Flammable Properties

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

Media

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

Media

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

from the substance or cause sensitization by inhalation and skin contact. Thermal

mixture decomposition can lead to release of irritating and toxic gases and

vapors.

Advice for firefighters : Wear self-contained breathing apparatus and protective suit. Use

personal protective equipment as required.

6. Accidental Release Measures

[Personal precautions, protective equipment and emergency procedures]

Personal precautions : Use personal protective equipment as required. Avoid contact with

skin, eyes or clothing. Keep people away from and upwind of

spill/leak. Evacuate personnel to safe areas.

: Use personal protection recommended in Section 8. For emergency

responders

[Environmental Precautions]

Environmental : Collect spillage. Should not be released into the environment. Do not



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Precautions allow into any sewer, on the ground or into any body of water.

[Methods and material for containment and cleaning up]

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. Dam up. Soak up

with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

[Reference to other sections]

See Section 12: ECOLOGICAL INFORMATION.

7. Handling and Storage

[Precautions for Safe Handling]

Advice on safe handling : Use personal protective equipment as required. Avoid contact with

skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Do not eat, drink or smoke

when using this product. Use with local exhaust ventilation.

General Hygiene : Regular cleaning of equipment, work area and clothing is

Considerations recommended. When using do not eat, drink or smoke. Wash face,

hands and any exposed skin thoroughly after handling.

[Conditions for Safe Storage, including any Incompatibilities]

Storage Conditions : Keep in properly labeled containers. Keep containers tightly closed in

a cool, well-ventilated place. Store locked up. Avoid direct sunlight or

high temperature.

[Specific end use(s)]

Risk Management : The information required is contained in this Safety Data Sheet.

Methods (RMM)

8. Exposure Controls / Personal Protection

[Control parameters]

Exposure Limits

	-				
	Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH	
	Copper compounds	TWA: 1 mg/m3 Cu	_	IDLH: 100 mg/m3 Cu dust and mist	
		dust and mist	-	TWA: 1 mg/m3 Cu dust and mist	

[Appropriate engineering controls]

Engineering Controls : Showers, Eyewash stations, Ventilation systems

Individual protection measures, such as personal protective equipment



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

Hand Protection : Gloves made of plastic or rubber.

Skin and body : Suitable protective clothing, Apron. Gloves made of plastic or

protection rubber.









9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : blue

Odor : Characteristic odor
Odor Threshold : No data available
pH : No data available
Melting point/freezing point : No data available

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

: No data available

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

Upper flammability limits

Lower flammability limit

Boiling point/boiling range

Vapor Pressure : No data available
Vapor density : No data available

Specific gravity : 1.0-1.1

Water solubility

Solubility(ies)

Partition coefficient

Autoignition temperature

Decomposition temperature

Kinematic viscosity

Solubility(ies)

No data available

[Other information]

Molecular weight : No data available Explosive properties : No data available



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

10. Stability and Reactivity

Reactivity : The heat and polymerization may occurred by contamination of

thermal, light, metal powder and peroxide.

Chemical stability : Polymerization can occur. Combustibility. Stable under the normal

storage and use.

Explosion data : Sensitivity to Mechanical Impact; none.

Sensitivity to Static Discharge; none.

Possibility of Hazardous : None under normal processing.

Reactions

Hazardous : None under normal processing.

polymerization

Conditions to Avoid : Extremes of temperature and direct sunlight.

Incompatible Materials : Strong oxidizing agents. Finely powdered metals.

Hazardous : Thermal decomposition can lead to release of irritating and toxic

decomposition products gases and vapors.

11. Toxicological Information

[Information on likely routes of exposure]

INHALATION : No data available.

INGESTION : May be harmful if swallowed May cause additional affects as listed

under "Inhalation" Ingestion may cause irritation to mucous

membranes.

Skin Contact : No data available.

Eye contact : No data available.

[Information on toxicological effects]

Acute toxicity : No data available.

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

Skin : No data available.

corrosion/irritation



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Serious eye damage/eye : No data available.

irritation

Sensitization : No data available.

Germ cell mutagenicity : No data available.

Carcinogenicity : No data available.

Reproductive toxicity : No data available.

STOT - single exposure : No data available.

STOT - repeated : No data available.

exposure

Chronic toxicity : Repeated contact may cause allergic reactions in very susceptible

persons. Avoid repeated exposure.

Subchronic toxicity
No data available.
No data available.
Other adverse effects
No data available.
No data available.
No data available.

[Numerical measures of toxicity]

Unknown Acute : 73.2% of the mixture consists of ingredient(s) of unknown toxicity.

Toxicity

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 : The table below indicates component(s) of known hazards to the

aquatic environment.

97.8% of the mixture consists of component(s) of unknown hazards to

the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea	Terrestrial organism
Copper compounds	-	LC50(48h, static): > 100 mg/L (Oryzias latipes)	-	-

Persistence and : No data available.

Degradability

Bioaccumulation : No data available.

Mobility : No data available.

Other adverse effects : No data available.



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13. Disposal Considerations

[Waste treatment methods]

Waste from Residues /

: Disposal should be in accordance with applicable regional, national

Unused Products

and local laws and regulations.

Contaminated

: Disposal should be in accordance with applicable regional, national

packaging

and local laws and regulations.

Other Information

: Waste codes should be assigned by the user based on the application

for which the product was used.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

[IMDG]

UN/ID no : Not regulated Proper shipping name : Not regulated **Hazard Class** : Not regulated **Packing Group** : Not regulated

Special Provisions : none

Marine pollutant : Not Applicable Environmental hazard : Not Applicable

[IATA]

UN/ID no : Not regulated Proper shipping name : Not regulated **Hazard Class** : Not regulated **Packing Group** : Not regulated

Special Provisions : none

[RID]

UN/ID no : Not regulated Proper shipping name : Not regulated **Hazard Class** : Not regulated **Packing Group** : Not regulated Environmental hazard : Not Applicable

Special Provisions : none

[ADR]



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UN/ID no : Not regulated
Proper shipping name : Not regulated
Hazard Class : Not regulated
Packing Group : Not regulated
Environmental hazard : Not Applicable

Special Provisions : none

[ADN]

UN/ID no : Not regulated
Proper shipping name : Not regulated
Hazard Class : Not regulated
Packing Group : Not regulated
Environmental hazard : Not Applicable

Special Provisions : none

15. Regulatory Information

[National Regulations]

Poisons Act : Not Applicable
Fire Safety Act : Not Applicable
Environtmental : Not Applicable

Protection Management

Law

We adopted 1.0% or more as a threshold value in case of no provision in a law.

16. Other Information

[Reference]

LOLI Database (ChemADVISOR,Inc.)

[The reference on GHS classification results]

EU CLP(1272/2008)Annex VI Table 3.1

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