

Safety Data Sheets

1. Identification

Product Name : LUS-170 Light Cyan
Order No. : LUS17-LC-BA
General Use : Ink jet printing ink
Product Description : UV Inkjet Ink
SDS Number : 037-U182960
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

Sensitization – Skin : Category 1

Toxic to Reproduction : Category 2

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

[HCS Label Elements]

Symbol



Signal Word
Warning

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Hazard Statements

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

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.

P261 Avoid breathing gas/mist.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

[Response]

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

[Storage]

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

Not Applicable

Unknown Acute Toxicity

73.2% of the mixture consists of ingredient(s) of unknown toxicity

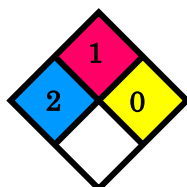
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special =



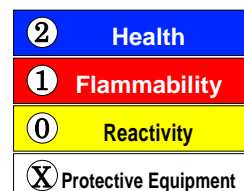
HMIS Rating (scale 0 – 4)

Health = 2

Flammability = 1

Reactivity = 0

Protective Equipment = X



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Monomers	80-90	CBI

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2	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	5-15	75980-60-8
3	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	1-5	162881-26-7
4	Additives	<1	CBI
5	Photoinitiator	<1	CBI
6	Copper compounds	<1	CBI
7	Others	<1	CBI

4. First Aid Measures

[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.
- 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 while removing all contaminated clothes and shoes.
Wash contaminated clothing before reuse.
- Inhalation : Move to fresh air in case of accidental inhalation of vapors.
If symptoms persist, call a physician.
- Ingestion : If swallowed, call a poison control center or physician immediately.
Do not induce vomiting without medical advice. Rinse mouth.
Never give anything by mouth to an unconscious person.
- Self-protection of the first aider : Use personal protective equipment as required.

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

- Symptoms : No data available.

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

- Note to physicians : May cause sensitization of susceptible persons.

5. Fire Fighting Measures

- Flammable Properties : Flash Point 95 °C / 203 °F
- Extinguishing Media : Dry chemical, CO2, water spray or alcohol-resistant foam.
- Unsuitable Extinguishing : Do not use a solid water stream as it may scatter and spread fire.

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Media

Special Hazards Arising : In the event of fire and/or explosion do not breathe fumes.

from the Chemical May cause sensitization by inhalation and skin contact.

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

[Explosion data]

Sensitivity to Mechanical Impact : none.

Sensitivity to Static Discharge : none.

Protective equipment and : As in any fire, wear self-contained breathing apparatus
precautions for pressure-demand, MSHA/NIOSH (approved or equivalent) and full
firefighters protective gear.

If impossible to extinguish, protect surroundings and allow fire to burn itself out.

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.

[Environmental precautions]

Environmental : Collect spillage. Do not allow into any sewer, on the ground or into
precautions any body of water. Should not be released into the environment.

[Methods and material for containment and cleaning up]

Methods for : Absorb or cover with dry earth, sand or other non-combustible
containment material and transfer to containers.

Methods for cleaning : Use personal protective equipment as required. Dam up.

up Soak up with inert absorbent material.

Pick up and transfer to properly labeled containers.

Clean contaminated surface thoroughly.

7. Handling and Storage

[Precautions for safe handling]

Advice on safe : Use personal protective equipment as required.

handling Avoid contact with skin, eyes or clothing.

Do not breathe dust/fume/gas/mist/vapors/spray.

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Wash contaminated clothing before reuse.

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

Use with local exhaust ventilation.

[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.

Incompatible materials : Strong oxidizing agents. Finely powdered metals.

8. Exposure Controls / Personal Protection

[Control parameters]

Exposure Guidelines

Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
Copper compounds	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist

[Appropriate engineering controls]

Engineering Controls : Showers

Eyewash stations

Ventilation systems.

[Individual protection measures, such as personal protective equipment]

Hand Protection : Gloves made of plastic or rubber.

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

Protection

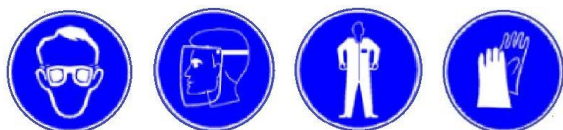
Skin and body : Suitable protective clothing. Apron. Gloves made of plastic or rubber.

protection

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.



9. Physical and Chemical Properties

[Information on basic physical and chemical properties]

Appearance - Physical State : liquid

- Color : blue

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Odor	: Characteristic odor
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 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
Specific gravity	: 1.0-1.1
Solubility(ies)	: Immiscible in water
Partition coefficient	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: < 20 mPa·s(25 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
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.
Possibility of Hazardous	: None under normal processing.

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Reactions	Hazardous polymerization ; None under normal processing.
Conditions to Avoid	: Extremes of temperature and direct sunlight.
Incompatible Materials	: Strong oxidizing agents. Finely powdered metals.
Hazardous Decomposition Products	: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. Toxicological Information

[Information on likely routes of exposure]

Inhalation	: No data available.
Eye contact	: No data available.
Skin Contact	: No data available.
Ingestion	: No data available.

[Information on toxicological effects]

Acute toxicity	: No data available.
Component Information	: Caution - This preparation contains a substance not yet fully tested

[Symptoms]

Symptoms	: No data available.
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[Delayed and immediate effects as well as chronic effects from short and long-term exposure]

Skin corrosion/irritation	: No data available.
Serious eye damage/eye irritation	: No data available.
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 exposure	: No data available.
Chronic toxicity	: Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Aspiration hazard	: No data available.

[Numerical measures of toxicity - Product Information]

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

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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.

97.6% of the mixture consists of component(s) of unknown hazards to the aquatic environment

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

Persistence and degradability : No data available.

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 packaging : Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

[DOT]

UN/ID no : Not regulated.

Proper shipping name : Not regulated.

Hazard Class : Not regulated.



Product Name: LUS-170 Light Cyan
SDS No. 037-U182960
First issue: 2017/09/11
Revised: 2019/11/19

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Packing Group : Not regulated.
Special Provisions : None.
Marine pollutant : Not Applicable.

[TDG]

UN/ID no : Not regulated.
Proper shipping name : Not regulated.
Hazard Class : Not regulated.
Packing Group : Not regulated.
Special Provisions : None.
Marine pollutant : Not regulated.

[MEX]

UN/ID no : Not regulated.
Proper shipping name : Not regulated.
Hazard Class : Not regulated.
Packing Group : Not regulated.
Special Provisions : None.

[IATA]

UN/ID no : Not regulated.
Proper shipping name : Not regulated.
Hazard Class : Not regulated.
Packing Group : Not regulated.
Special Provisions : None.

[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 regulated.
Environmental hazard : Not Applicable.

15. Regulatory Information

[International Inventories]

TSCA-US-Toxic : All ingredients of this product are registered on TSCA inventory.
Substances Control : This product contains components registered as TSCA 5(e). See also
Act TSCA 5(e) section 16.

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DSL-Canada-Domestic : Does not Comply

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 %
Glycol ethers	CBI	<30	1.0

[SARA 311/312 Hazard Categories]

Acute health hazard : Yes

Chronic Health : Yes

Hazard

Fire hazard : No

Sudden release of : No

pressure hazard

Reactive Hazard : No

[CWA (Clean Water Act)]

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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper compounds		×		

[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, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to



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www.P65Warnings.ca.gov.

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

16. Other Information

[Reference]

LOLI Database (ChemADVISOR, Inc.)

The reference on GHS classification results.

Japan National Institute of Technology and Evaluation (NITE).

EU CLP(1272/2008)Annex VI Table 3.1

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