

Safety Data Sheets

1. Identification

Product Name : LUS-120 Cyan
Order No. : LUS12-C-BA
General Use : Ink jet printing ink
Product Description : UV Inkjet Ink
SDS Number : 037-U110348
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. : +1-678-730-0100
Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[GHS 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.

[GHS 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 manual instructions 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]

P321 Specific treatment (see 4-Response on our website/SDS URL:

www.mimaki.co.jp/sds).

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

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.

[Storage]

P405 Store locked up.

[Disposal]

P501 Dispose of contents/container in accordance with local/regional national international regulation (to be specified).

HMIS Rating (scale 0 – 4)

Health = 2

Flammability = 1

Reactivity = 0

Protective Equipment = X

②	Health
①	Flammability
①	Reactivity
ⓧ	Protective Equipment

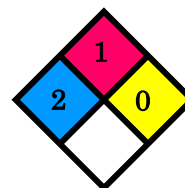
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special = -



CANADIAN WHMIS SYMBOLS : Non-controlled

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3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Monomers	85-95	Trade Secret
2	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	5-10	75980-60-8
3	Copper compounds	1-5	Trade Secret
4	Additives	1-5	Trade Secret
5	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	1-5	162881-26-7
6	Photoinitiator	0.1-1	Trade Secret

4. First Aid Measures

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.
Note To Physician	: May cause sensitization of susceptible persons. Treat symptomatically.

5. Fire Fighting Measures

Flammable Properties	: Flash point : 109°C/ 228° F
Extinguishing Media	: Dry chemical, CO2, water spray or alcohol-resistant foam.
Unsuitable Extinguishing Media	: Do not use a solid water stream as it may scatter and spread fire.

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Specific hazards arising from the chemical	: In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Fire Fighting Instructions	: Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

6. Accidental Release Measures

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	: Collect spillage. Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. See also section 16.
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.

7. Handling and Storage

Handling	: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe gas/ mist. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.
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. Store locked up.
Incompatible materials	: Strong oxidizing agents.

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8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name	OSHA PEL	ACGIH TLV	NIOSH IDLH
1	Copper compounds	N.E.	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

NIOSH IDLH : Immediately Dangerous to Life or Health

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Showers, Eyewash stations, ventilation systems

Personal Protection

Respiratory

Protection



: An air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where air-borne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited.

Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.

Hand Protection



Gloves

: Gloves made of plastic or rubber.

Eye Protection



Safety Glasses

: Tight sealing safety goggles. Face protection shield.

Skin Protection



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

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Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: blue
Odor		: Specific odor
pH		: Not Available
Boiling Point / Boiling Range		: Not Available
Melting Point / Melting Range		: Not Available
Decomposition Temperature		: Not Available
Flash Point		: 109°C/ 228° F (Acceptance by the lowest flash point)
Auto ignition temperature		: Not Available
Upper / Lower Flammability or Explosive Limits		: Not Available
Vapor Pressure		
Relative Density		: Not Available
Solubility		: Not Available
Water Solubility		: Immiscible in water
Viscosity		: <35 mPa·s(25 deg.C)
VOC		: Not Available

10. Stability and Reactivity

Conditions to Avoid	: Extremes of temperature and direct sunlight.
Stability	: Stable under recommended storage conditions.
Materials to Avoid	: Strong oxidizing agents.
Hazardous Reactions / Decomposition Products	: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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11. Toxicological Information

Acute Toxicity	: 78% of the mixture consists of ingredient(s) of unknown toxicity
Eye Irritation	: Not Available
Skin Irritation	: Not Available
Sensitization	: Category 1 as a product.
Repeated Dose Toxicity	: Not Available
Chronic Toxicity	: Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse liver effects.
Mutagenicity	: Not Available
Carcinogenicity	: Not Available
Reproductive and Developmental Toxicity	: Category 2 as a product.

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	: 99% of the mixture consists of component(s) of unknown hazards to the aquatic environment
Persistence and Degradability	: Not Available
Bioaccumulative Potential	: Not Available
Other Adverse Effects	: Not Available

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13. Disposal Considerations

Disposal of wastes : Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Copper compounds	Toxic

See also section 16.

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 : Not Applicable
Proper Shipping Name : Not Applicable
Hazardous Class : Not Applicable
Packing Group : Not Applicable
Special Provisions : none
Marine pollutant : Not Applicable

TDG

UN Number : Not Applicable
Proper Shipping Name : Not Applicable
Hazardous Class : Not Applicable
Packing Group : Not Applicable
Special Provisions : none
Marine pollutant : Not Applicable

MEX

UN Number : Not Applicable
Proper Shipping Name : Not Applicable
Hazardous Class : Not Applicable
Special Provisions : none
Packing Group : Not Applicable



Product Name: LUS-120 Cyan
SDS No. 037-U110348
First issue: 2014/12/16
Revised:

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IATA

UN Number : Not Applicable
Proper Shipping Name : Not Applicable
Hazardous Class : Not Applicable
Packing Group : Not Applicable
Special Provisions : none

IMDG

UN Number : Not Applicable
Proper Shipping Name : Not Applicable
Hazardous Class : Not Applicable
Packing Group : Not Applicable
Special Provisions : none
Marine pollutant : Not Applicable
Environment hazard : Not Applicable

15. Regulatory Information

TSCA Status : This product contains components registered as TSCA 5(e).
See also section 16.

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 :
(40 CFR 370)

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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Section 313
(40 CFR 372)

: 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.	wt%	SARA313 Threshold Values
Glycol ethers	Trade Secret	<15	1.0%

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)

Copper compounds	Reportable Quantities	-
	Toxic Pollutants	X
	Priority Pollutants	-
	Hazardous Substances	-

California Proposition
65

: This product does not contain any Proposition 65 chemicals

U.S. State
Right-to-Know
Regulations

: This product contains substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Copper compounds	X	-	X
Glycol ethers	X	-	X

U.S. EPA Label
Information

: EPA Pesticide Registration Number
Not Applicable

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

Others

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

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16. Other Information

References

- 1) LOLI Database (ChemADVISOR, Inc.)
- 2) Japan National Institute of Technology and Evaluation (NITE)
- 3) EU CLP(1272/2008)Annex VI Table 3.1

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.

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