

Safety Data Sheets

1. Identification

Product Name : LUS-120 Yellow
Order No. : LUS12-Y-BA / LUS12-Y-B2
General Use : Ink jet printing ink
Product Description : UV Inkjet Ink
SDS Number : 037-U110351
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. : +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]
- 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 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

78% of the mixture consists of ingredient(s) of unknown toxicity

HMIS Rating (scale 0 – 4)

Health = 2

Flammability= 1

Reactivity = 0

Protective Equipment = X

2	Health
1	Flammability
0	Reactivity
X	Protective Equipment

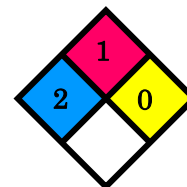
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special = -



CANADIAN WHMIS SYMBOLS : Non-controlled

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3. Composition / Information on Ingredients

Pure substance/mixture: Mixture

No	Chemical Name	Wt%	CAS No.
1	Monomers	80-90	Trade Secret
2	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	5-10	75980-60-8
3	Photoinitiator	1-5	Trade Secret
4	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	1-5	162881-26-7
5	Colorant	1-5	Trade Secret
6	Additives	1-5	Trade Secret

4. 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.
- 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.
- 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 Physician : May cause sensitization of susceptible persons. Treat symptomatically.

5. Fire Fighting Measures

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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.
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.
Explosion data	: Sensitivity to Mechanical Impact; No data available. Sensitivity to Static Discharge; No data available.
Protective equipment and precautions for firefighters	: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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 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 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. 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 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

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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 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.

8. Exposure Controls / Personal Protection

[Control parameters]

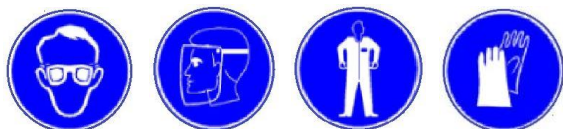
- Exposure Limit Values : This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

[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 protection : Tight sealing safety goggles. Face protection shield.
- Skin and body protection : Suitable protective clothing. Apron. Gloves made of plastic or rubber.
- General Hygiene Considerations : Regular cleaning of equipment, work area and clothing is 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 : yellow
- Odor : Characteristic odor
- Odor Threshold : No data available

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pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 109 °C / 228 °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	: No data available
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	: <35 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	: No reactivity under the normal usage.
Chemical Stability	: Stable under normal conditions.
Possibility of Hazardous Reactions	: None under normal processing.
Conditions to Avoid	: Extremes of temperature and direct sunlight.
Incompatible Materials	: Strong oxidizing agents.
Hazardous Decomposition	: Thermal decomposition can lead to release of irritating and toxic

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Products 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

[Symptoms]

Symptoms : No data available.

[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

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

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 : 78% of the mixture consists of ingredient(s) of unknown 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 : No data available

98% of the mixture consists of component(s) of unknown hazards to

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	the aquatic environment
Persistence and Degradability	: No data available
Bioaccumulative Potential	: No data available
Other Adverse Effects	: No data available

13. Disposal Considerations

Disposal of wastes	: Comply with all USA, national and local regulations. <u>Do not dump this product into sewers, on the ground or into any body of water.</u>
Disposal of wastes	: Disposal should be in accordance with applicable regional, national and local laws and regulations. See also section 16.
Contaminated packaging	: Disposal should be in accordance with applicable regional, national and local laws and regulations. See also section 16.

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.
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]

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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 Substances Control Act : Please ask us

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

DSL/NDSL : Please ask us

[Legend]

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic 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



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Chemical Name	CAS No.	weight-%	SARA 313 - Threshold Values %
Glycol ethers	CBI	<25	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)

[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 : This product does not contain any Proposition 65 chemicals.

Proposition 65

EPA Label : EPA Pesticide Registration Number Not Applicable

Information

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

Right-to-Know right-to-know regulations

Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Glycol ethers	X		X

[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

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16. Other Information

References	<ol style="list-style-type: none">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 2% 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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