

Safety Data Sheets

1. IDENTIFICATION

Product Identifier	UV ink LUS-210 Clear
Product code	LUS21-CL-BA
Recommended use and restriction use	INK JET ink
Supplier name	MIMAKI ENGINEERING CO., LTD.
Address	2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone number	+81-268-64-2413
Importer / Distributor Information	MIMAKI SINGAPORE PTE. LTD.
Address	31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03
Telephone number	+65-6508-2789
Emergency telephone number	+65 3165 2217 (within Singapore only) +65 3158 1074

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Physical and chemical hazards	Flammable liquids Not classified
Health hazards	Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Sensitization – skin Category 1 Reproductive toxicity Category 2
Environmental Hazards	Hazard to the aquatic environment (acute hazard) Category 1 Hazard to the aquatic environment (long-term hazard) Category 2

GHS LABEL ELEMENTS

Pictograms



Signal Word

Warning

Hazard Statements

H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction
H361 Suspected of damaging fertility or the unborn child
H400 Very toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

Obtain special instructions before use(P201)
Do not handle until all safety precautions have been read and understood(P202)
Avoid breathing mist, vapours and spray.(P261)
Wash thoroughly after handling.(P264)
Contaminated work clothing should not be allowed out of the workplace.(P272)

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Response

Avoid release to the environment(P273)
Wear protective gloves, eye protection and face protection.(P280)
IF ON SKIN: Wash with plenty of soap and water(P302+P352)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing(P305+P351+P338)
IF exposed or concerned: Get medical advice/attention(P308+P313)
Specific treatment.(P321)
If skin irritation or rash occurs: Get medical advice/attention(P333+P313)
If eye irritation persists: Get medical advice/attention(P337+P313)
Take off contaminated clothing and wash it before reuse.(P362+P364)
Collect spillage(P391)
Store locked up(P405)
Dispose of contents/ container to an approved landfill.(P501)

Storage

Disposal

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	Mixtures		
Chemical name	Contents	Chemical Formula	CAS RN
Acrylate Resin	20-30%	Unknown	Confidential
Hexane-1,6-diyl diacrylate	60-70%	Unknown	13048-33-4
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	5-10%	Unknown	75980-60-8

4. FIRST-AID MEASURES

In case of inhalation	IF exposed or concerned: Get medical advice and attention. Call a doctor if you feel unwell.
In case of skin contact	IF exposed or concerned: Get medical advice and attention. IF ON SKIN: Wash with plenty of soap and water. Take of contaminated clothing and wash before re-use. If skin irritation or rash occurs, get medical advice and attention. Specific treatment.
In case of eye contact	IF exposed or concerned: Get medical advice and attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
In case of ingestion	IF exposed or concerned: Get medical advice and attention. Rinse mouth. IF SWALLOWED: Call a doctor if you feel unwell.

5. FIRE-FIGHTING MEASURES

Suitable fire-extinguishing media	Dry chemicals, CO2, fog, alcohol-resistant foam or sand.
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Not suitable extinguishing media

Specific hazards arising from the chemical

Special protective actions for fire fighters

Cylindric water.

Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.

Use goggles in combination with dust mask, and another protections as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use goggles in combination with dust mask, and another protections as appropriate to situation.

Environmental precautions

Large spills :Evacuate area.

Ensure adequate ventilation.

Collect spillage.

Do not discharge into the drains, surface waters or ground water directly.

Methods and materials for containment and cleaning up

small spill : absorb with material such as non-combustible material wash thoroughly after handling

Large spills: Dike spills and dispose of in safe area.

Prevention Measures for Secondary Accidents

Keep away from sources of ignition and prepare extinguishing media.

Risk of slipping. Spilled material forms slippery floor.

Do not recklessly walk on the spillage.

7. HANDLING AND STORAGE

Handling

Technical measures

Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Safe handling advice

Wash hands thoroughly after handling.

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

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

Avoid breathing dust/fume/gas/mist/vapours/spray.

Storage

Suitable storage conditions

Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Use explosion-proof electrical equipment and prevent from static electricity.

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Individual protection measures

Respiratory protection

If necessary, wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye protection/face protection.

Skin and body protection

Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State

Liquid

Color

clear

Odor

ester

Odor threshold

No data available

pH

No data available

Melting point

No data available

Boiling point

No data available

Flash point

>100°C(closed cup)

Evaporation rate

No data available

Flammability(Solid,Gas)

No data available

Flammability or explosive limits

No data available

Vapor pressure

No data available

Vapor density

No data available

Relative density

No data available

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

Viscosity

No data available

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

Polymerization and curing may occur when exposed to light, particularly ultraviolet rays.

Conditions to avoid

Heat source, storage near fire source, direct sunlight, ultraviolet rays

Incompatible materials

Oxidizing agent, oxides of Iron, strong base

Hazardous decomposition products

Carbon dioxide, carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)

Unable to classify due to insufficient data.

Acute toxicity (Dermal)

Unable to classify due to insufficient data.

Acute toxicity (Inhalation : Gases)

Does not fall under gas based on GHS definitions.

Acute toxicity (Inhalation : Vapours)

Unable to classify due to insufficient data.

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Acute toxicity (Inhalation : dust/mist)
Skin corrosion/ Irritation

Unable to classify due to insufficient data.
Category 2:13048-33-4 (source: Registered substances (ECHA))
Classification not possible:75980-60-8 (source: 1272/2008/EC)
No data:Confidential (source: None)

Serious eye damage/ irritation

Sum of Category 2 Concentration limit = 10%. Classification result = Category 2.
Category 2:13048-33-4 (source: Registered substances (ECHA))
Classification not possible:75980-60-8 (source: 1272/2008/EC)
No data:Confidential (source: None)

Respiratory Sensitization
Skin Sensitization

Sum of Eye category 2 Concentration limit = 10%. Classification result = Category 2A.
Unable to classify due to insufficient data.
Category 1:13048-33-4 (source: Registered substances (ECHA))
Classification not possible:75980-60-8 (source: 1272/2008/EC)
No data:Confidential (source: None)

Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity

13048-33-4 \geq 1% Classification result = Category 1
Unable to classify due to insufficient data.
Unable to classify due to insufficient data.
Category 2:75980-60-8 (source: 1272/2008/EC)
Classification not possible:13048-33-4 (source: Registered substances (ECHA))
No data:Confidential (source: None)

Reproductive toxicity, effects on or via lactation
Specific target organ Toxicity – Single Exposure
Specific target organ toxicity – Repeated Exposure
Aspiration hazard

75980-60-8 \geq 3% Classification result = Category 2
Unable to classify due to insufficient data.
Unable to classify due to insufficient data.
Unable to classify due to insufficient data.
Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment – Acute Toxicity

Category 1:13048-33-4 (source: Registered substances (ECHA))
Classification not possible:75980-60-8 (source: 1272/2008/EC)
No data:Confidential (source: None)

Category 1 x M factor \geq concentration limit(25%). Classification result = Category 1.

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Hazardous to the Aquatic Environment –
Chronic Toxicity

Category 2:13048-33-4 (source: Registered substances (ECHA))
Classification not possible:75980-60-8 (source: 1272/2008/EC)
No data:Confidential (source: None)

Hazardous to the Ozone layer

(M factor x 10 x Category 1) + Category 2 >= Concentration
limit(25%). Classification result = Category 2.
Unable to classify due to insufficient data.

13. DISPOSAL CONSIDERATIONS

Residual Waste

Before disposal, make the wastes harmless, stabilized, and
neutralized, and minimize danger and toxicity of the wastes.
Dispose of waste in accordance with local,state and federal
regulations.

Contaminated Container and Packaging

Passed to a licensed waste contractor.
In case of disposal of empty containers, remove the content
thoroughly.

14. TRANSPORT INFORMATION

International regulations

Sea(IMDG)

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Special Provision	2.10.2.7 *1

air(IATA)

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Special Provision	A197 *1

*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

No main regulation

Component Analysis – Inventory

Hexane-1,6-diyl diacrylate (13048-33-4)

TSCA – United States	ENCS – Japan	KECI Annex 1, 2 – Korea	IECSC – China	DSL/NDL – Canada	PICCS – Philippines	AICS – Australia	EINECS/ELINCS – European Union	TCSI – Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)



Product Name: UV ink LUS-210 Clear

SDS No. 037-U225047

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TSCA – United States	ENCS – Japan	KECI Annex 1, 2 – Korea	IECSC – China	DSL/NDL – Canada	PICCS – Philippines	AICS – Australia	EINECS/ELINCS – European Union	TCSI – Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Literature References

NITE GHS

EU CLP Regulation, AnnexVI

Other data

The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide. The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.