

Product Name: UV ink LUS-211 Clear

SDS No. 037-U317717 First issue: 2023/11/02

Revised:

1. IDENTIFICATION

Product Identifier UV ink LUS-211 Clear
Product code LUS211-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

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)



Response

Substances or mixtures

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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)
Stars leaked up(P405)

Storage Store locked up(P405)

Disposal Dispose of contents/ container to an approved landfill.(P501)

Mixtures

3. COMPOSITION / INFORMATION ON INGREDIENTS

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-	5-10%	Unknown	75980-60-8
trimethylbenzoyl)phosphine oxide			

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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e. 2023/11/02 Revised:

Not suitable extinguishing media

Specific hazards arising from the chemical

Cylindric water.

Risk of producing harmful gases such as carbon monoxide. Avoid

inhalation of smoke or gases.

Special protective actions for fire fighters 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.

Large spills :Evacuate area.

Ensure adequate ventilation.

Environmental precautions Collect spillage.

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

Keep away from sources of ignition and prepare extinguishing media.

directly

Methods and materials for containment

and cleaning up

small spill: absorb with material such as non-combustible

materialwash thoroughly after handling

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

Prevention Measures for Secondary

Accidents

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

electrocity.



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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 Hq No data available Melting point No data available Boiling point No data available >100°C(closed cup) Flash point Evaporation rate No data available Flammability(Solid,Gas) No data available Flammability or explosive limits No data available Vapor pressure No data available No data available Vapor density No data available Relative density No data available Solubility(ies) No data available Partition coefficient: n-octanol/water Auto-ignition temperature No data available No data available Decomposition temperature No data available Viscosity

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)

Sum of Category 2 Concentration limit = 10%. Classification result =

Category 2.

Serious eye damage/irritation

Category 2:13048-33-4 (source: Registered substances (ECHA)) Classification not possible:75980-60-8 (source: 1272/2008/EC)

No data:Confidential (source: None)

Sum of Eye category 2 Concentration limit = 10%. Classification

result = Category 2A.

Respiratory Sensitization

Skin Sensitization

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)

13048-33-4 >= 1% Classification result = Category 1

Germ cell mutagenicity

Carcinogenicity Reproductive toxicity 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)

 $75980-60-8 \ge 3\%$ Classification result = Category 2

Reproductive toxicity, effects on or via

lactation

Specific target organ Toxicity - Single

Exposure

Exposure

Specific target organ toxicity - Repeated

Aspiration hazard

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 >= 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)

(M factor x 10 x Category 1) + Category 2 >= Concentration

limit(25%). Classification result = Category 2.

Hazardous to the Ozone layer

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. UN proper shipping name

Transport hazard class(es) 9 Packing group Ш

Special Provision 2.10.2.7 *1

air(IATA)

3082 **UN** number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. UN proper shipping name

Transport hazard class(es) 9 Packing group Ш 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-divl diacrylate (13048-33-4)

	.,		,						
TSCA -	ENCS -	KECI Annex	IECSC -	DSL/NDSL -	PICCS -	AICS -	EINECS/ELINCS	TCSI -	NZIoC -
United	Japan	1. 2 - Korea	China	Canada	Philippines	Australia	- European	Taiwan	New
States	Оарап	1, 2 Norea	Offilia	Oanada	Timppines	Australia	Union	Taiwaii	Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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



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TSCA - United States	ENCS - Japan	KECI Annex 1, 2 - Korea	IECSC - China	DSL/NDSL - 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.