

Product Name: UV ink LUS-211 Yellow

SDS No. 037-U317715 First issue: 2023/11/02

Revised:

1. IDENTIFICATION

Product Identifier UV ink LUS-211 Yellow

Product code LUS211-Y-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)



Response

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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 eve 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) Storage

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

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	55-65%	Unknown	13048-33-4
2-Propen-1-one, 1-(4-morpholinyl)-	0.1-1%	Unknown	5117-12-4
Diphenyl(2,4,6-	5-10%	Unknown	75980-60-8
trimethylbenzoyl)phosphine oxide			
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-	5-10%	Unknown	68511-62-6
pyrimidinetrione complexes			

4. FIRST-AID MEASURES

In case of inhalation IF exposed or concerned: Get medical advice and attention. Call a doctor if you feel unwell. IF exposed or concerned: Get medical advice and attention. In case of skin contact 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.

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5. FIRE-FIGHTING MEASURES

Dry chemicals, CO2, fog, alcohol-resistant foam or sand. Suitable fire-extinguishing media

Not suitable extinguishing media Cylindric water.

Specific hazards arising from the chemical 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

Use local exhaust ventilation in case of production of fume or mist. Engineering measures

Facilities storing or utilizing this material should be equipped with an



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eyewash facility and a safety shower.

Use explosion-proof electrical equipment and prevent from static

electrocity.

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 yellow
Odor ester

Odor threshold No data available pΗ 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 No data available Flammability or explosive limits No data available Vapor pressure No data available Vapor density 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 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



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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. Acute toxicity (Inhalation : dust/mist) Unable to classify due to insufficient data.

Skin corrosion/ Irritation Category 2:13048-33-4 (source: Registered substances (ECHA))

Classification not possible:75980-60-8 (source: 1272/2008/EC),

5117-12-4 (source: 1272/2008/EC)

No data:68511-62-6 (source: None), Confidential (source: None)

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

Category 2.

Serious eye damage/irritation Category 1:5117-12-4 (source: 1272/2008/EC)

> Category 2:13048-33-4 (source: Registered substances (ECHA)) Classification not possible:75980-60-8 (source: 1272/2008/EC) No data:68511-62-6 (source: None). Confidential (source: None)

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

result = Category 2A.

Respiratory Sensitization Unable to classify due to insufficient data.

Category 1:5117-12-4 (source: 1272/2008/EC), 13048-33-4 Skin Sensitization

(source: Registered substances (ECHA))

Classification not possible:75980-60-8 (source: 1272/2008/EC) No data:68511-62-6 (source: None), Confidential (source: None)

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

Ingredients not contributing to classification:

5117-12-4 (category = Category 1, source: 1272/2008/EC)

Germ cell mutagenicity Unable to classify due to insufficient data. Carcinogenicity Unable to classify due to insufficient data.

Category 2:75980-60-8 (source: 1272/2008/EC) Reproductive toxicity

Classification not possible:5117-12-4 (source: 1272/2008/EC),

13048-33-4 (source: Registered substances (ECHA))

No data:68511-62-6 (source: None), Confidential (source: None)

75980-60-8 >= 3% Classification result = Category 2

Reproductive toxicity, effects on or via

Specific target organ Toxicity - Single

lactation

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Exposure

Specific target organ toxicity - Repeated

Category 2:5117-12-4 (organ = ---, source: 1272/2008/EC)



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Classification not possible:75980-60-8 (source: 1272/2008/EC), Exposure

13048-33-4 (source: Registered substances (ECHA))

No data:68511-62-6 (source: None), Confidential (source: None)

Substances classified as hazardous are below the concentration limit. Contains substance of unknown toxicity. Changed from Not

classified to Classification not possible.

Aspiration hazard Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment -

Category 1:13048-33-4 (source: Registered substances (ECHA)) Acute Toxicity Classification not possible:75980-60-8 (source: 1272/2008/EC),

5117-12-4 (source: 1272/2008/EC)

No data:68511-62-6 (source: None). Confidential (source: None)

Category 1 x M factor >= concentration limit(25%). Classification

result = Category 1.

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),

5117-12-4 (source: 1272/2008/EC)

No data:68511-62-6 (source: None), 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.

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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) Packing group



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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)

United States	ENCS - Japan	1, 2 - Korea	IECSC - China	DSL/NDSL - Canada	PICCS - Philippines	AICS – Australia	EINECS/ELINCS - European Union	TCSI – Taiwan	N∠IoC − New Zealand	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
2-Proper	2-Propen-1-one, 1-(4-morpholinyl)- (5117-12-4)									
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	
Diphenyl(Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)									
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	

	Nickel, 5,	5'-azobis-	-2,4,6(1H,3H	,5H)-pyrim	idinetrione	complexes (68511-62-6)
П							

Yes

Yes

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

Yes

16. OTHER INFORMATION

Yes

Yes

Literature References NITE GHS

Yes

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

Yes

liability for reliance thereon.

Yes

Yes

Yes