

Product Name: UV ink LUS-211 Black

SDS No. 037-U317714 First issue: 2023/11/02

Revised:

1. IDENTIFICATION

Product Identifier UV ink LUS-211 Black

Product code LUS211-K-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 Carcinogenicity Category 2 Reproductive toxicity Category 2

Specific target organ toxicity (repeated exposure) Category 2

(respiratory apparatus)

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

HO4E O III I

Hazard Statements H315 Causes skin irritation

H319 Causes serious eye irritation H317 May cause an allergic skin reaction H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs(respiratory apparatus) through

prolonged or repeated exposure H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention Obtain special instructions before use(P201)



Response

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Do not handle until all safety precautions have been read and understood(P202)

Do not breathe mist, vapours and spray.(P260)

Wash thoroughly after handling.(P264)

Contaminated work clothing should not be allowed out of the

workplace.(P272)

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)

Get medical advice/attention if you feel unwell(P314)

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) Storage

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	Contents	Chemical Formula	CAS RN	
Acrylate Resin	5-15%	Unknown	Confidential	
Hexane-1,6-diyl diacrylate	70-80%	Unknown	13048-33-4	
2-Propen-1-one, 1-(4-morpholinyl)-	0.1-1%	Unknown	5117-12-4	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	5-10%	Unknown	75980-60-8	
oxide				
Carbon black	5-10%	Unknown	1333-86-4	

4. FIRST-AID MEASURES

Substances or mixtures

In case of inhalation 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.

Mixtures

Take of contaminated clothing and wash before re-use.

If skin irritation or rash occurs, get medical advice and attention. IF exposed or concerned: Get medical advice and attention.

Specific treatment.



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In case of eye contact IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice and attention.

In case of ingestion Rinse mouth.

IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Get medical advice and attention.

5. FIRE-FIGHTING MEASURES

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

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.

protections as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment Use goggles in combination with dust mask, and another

and emergency procedures 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

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

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.

Do not breathe dust/fume/gas/mist/vapours/spray.



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Storage

Suitable storage conditions Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH (TLV)	OSHA (PEL)	Workplace Safety And Health (General Provisions) Regulations
Carbon black	TWA 3 mg/m3(I),STEL -	3.5 mg/m3 TWA	3.5 mg/m3 PEL

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.

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 black
Odor ester

Odor threshold No data available рΗ No data available No data available Melting point 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 No data available Decomposition temperature Viscosity No data available

10. STABILITY AND REACTIVITY

Reactivity No information available

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Stable under normal conditions of use. Chemical stability

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) Category 4:5117-12-4 (converted value = 500mg/kg, source:

1272/2008/EC)

Not classified:1333-86-4 (source: NITE)

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

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

No data:Confidential (source: None)

Calculation result = 8500mg/kg. Classification result = Classification

not possible.

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))

Not classified:1333-86-4 (source: NITE)

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

5117-12-4 (source: 1272/2008/EC) No data:Confidential (source: None)

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

Category 2.

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

Category 2:13048-33-4 (source: Registered substances (ECHA))

Not classified:1333-86-4 (source: NITE)

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 Unable to classify due to insufficient data.

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

(source: Registered substances (ECHA))

Classification not possible:1333-86-4 (source: NITE), 75980-60-8



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(source: 1272/2008/EC)

No data: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

Category 2:1333-86-4 (source: NITE)

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

5117-12-4 (source: 1272/2008/EC), 13048-33-4 (source:

Registered substances (ECHA))
No data:Confidential (source: None)

1333-86-4 >= 1% Classification result = Category 2 Category 2:75980-60-8 (source: 1272/2008/EC)

Classification not possible:1333-86-4 (source: NITE), 5117-12-4 (source: 1272/2008/EC), 13048-33-4 (source: Registered

substances (ECHA))

No data:Confidential (source: None)

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

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

Reproductive toxicity, effects on or via

lactation

Reproductive toxicity

Specific target organ Toxicity - Single

Exposure

Specific target organ toxicity - Repeated

Exposure

Category 1:1333-86-4 (organ = respiratory apparatus, source: NITE)

Category 2:5117-12-4 (organ = ---, source: 1272/2008/EC) Classification not possible:75980-60-8 (source: 1272/2008/EC),

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

No data:Confidential (source: None)

1333-86-4 >= 1% Classification result = Category 2(respiratory

apparatus)

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))

Not classified:1333-86-4 (source: NITE)

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

5117-12-4 (source: 1272/2008/EC) No data:Confidential (source: None)

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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:1333-86-4 (source: NITE), 75980-60-8

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

Before disposal, make the wastes harmless, stabilized, and Residual Waste

> 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)

3082 **UN** number

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

Transport hazard class(es) Ш Packing group

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 ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$ Packing group A197 *1 Special Provision

*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

Workplace Safety And Health Component Analysis - Inventory

Occupational Exposure Limits



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

TSCA - United States	ENCS - Japan	KECI Annex 1, 2 - Korea	IECSC - China	DSL/NDSL - Canada	PICCS - Philippines	AICS – Australia	EINECS/ELINC S - European Union	TCSI - Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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/ELINC S - 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)									
TSCA – United States	ENCS - Japan	KECI Annex 1, 2 - Korea	IECSC - China	DSL/NDSL - Canada	PICCS - Philippines	AICS - Australia	EINECS/ELINC S - European Union	TCSI - Taiwan	NZIoC - New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Carbon black (1333-86-4)									
TSCA – United States	ENCS - Japan	KECI Annex 1, 2 - Korea	IECSC - China	DSL/NDSL - Canada	PICCS - Philippines	AICS – Australia	EINECS/ELINC S - European Union	TCSI - Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yec	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Literature References

Other data

NITE GHS

EU CLP Regulation, AnnexVI

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.