

1. IDENTIFICATION

Product Identifier	UV ink LUS-210 Cyan
Product code	LUS21-C-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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	Avoid release to the environment(P273) Wear protective gloves, eye protection and face protection.(P280)
Response	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)
Storage	Store locked up(P405)
Disposal	Dispose of contents/ container to an approved landfill.(P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substa	inces or mixtures	Mixtures		
Cher	mical name	Contents	Chemical Formula	CAS RN
Acry	rlate Resin	5-15%	Unknown	Confidential
Hexa	ane-1,6-diyl diacrylate	70-80%	Unknown	13048-33-4
2-Pr	ropen-1-one, 1-(4-morpholinyl)-	0.1-1%	Unknown	5117-12-4
Diph	enyl(2,4,6-	5-10%	Unknown	75980-60-8
trime	ethylbenzoyl)phosphine oxide			
C.I. F	⊃igment blue-15:3	5-10%	Unknown	147-14-8

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.
Not suitable extinguishing media	Cylindric water.
Specific hazards arising from the	Risk of producing harmful gases such as carbon monoxide. Avoid
chemical	inhalation of smoke or gases.
Special protective actions for fire	Use goggles in combination with dust mask, and another protections as
fighters	appropriate to situation.
6. ACCIDENTAL RELEASE MEASURES	

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Personal precautions, protective	Use goggles in combination with dust mask, and another protections as
equipment and emergency procedures	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	small spill : absorb with material such as non-combustible
and cleaning up	materialwash thoroughly after handling
	Large spills: Dike spills and dispose of in safe area.
Prevention Measures for Secondary	Keep away from sources of ignition and prepare extinguishing media.
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 / PERSON	IAL PROTECTION
Engineering measures	Use local exhaust ventilation in case of production of fume or mist.

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	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



Hand protection

Eye protection

Safety Data Sheets

Individual protection measures Respiratory protection

Skin and body protection

electrocity.

If necessary, wear respiratory protection. Wear protective gloves. Wear eye protection/face protection. Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	blue
Odor	ester
Odor threshold	No data available
pН	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)

Category 4:5117-12-4 (converted value = 500mg/kg, source: 1272/2008/EC) Not classified:147-14-8 (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:147-14-8 (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.
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:147–14–8 (source: NITE), 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:147-14-8 (source: NITE), 75980-60-8
	(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	Unable to classify due to insufficient data.
Reproductive toxicity	Category 2:75980-60-8 (source: 1272/2008/EC)
	Classification not possible:147–14–8 (source: NITE), 5117–12–4
	(source: 1272/2008/EC), 13048-33-4 (source: Registered substances



	(ECHA)) No data:Confidential (source: None)
Reproductive toxicity, effects on or via lactation	75980-60-8 \geq 3% Classification result = Category 2 Unable to classify due to insufficient data.
Specific target organ Toxicity – Single Exposure	Unable to classify due to insufficient data.
Specific target organ toxicity – Repeated Exposure	Category 2:5117-12-4 (organ =, source: 1272/2008/EC) Classification not possible:147-14-8 (source: NITE), 75980-60-8 (source: 1272/2008/EC), 13048-33-4 (source: Registered substances (ECHA)) No data:Confidential (source: None)
Acciustics beyond	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 – Acute Toxicity	Category 1:13048-33-4 (source: Registered substances (ECHA)) Classification not possible:147-14-8 (source: NITE), 75980-60-8 (source: 1272/2008/EC), 5117-12-4 (source: 1272/2008/EC) No data:Confidential (source: None)
Hazardous to the Aquatic Environment – Chronic Toxicity	Category 1 x M factor >= concentration limit(25%). Classification result = Category 1. Category 2:13048-33-4 (source: Registered substances (ECHA)) Classification not possible:147-14-8 (source: NITE), 75980-60-8 (source: 1272/2008/EC), 5117-12-4 (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	Ш
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	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

*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/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
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(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
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

C.I. Pigment blue-15:3 (147-14-8)

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	Taiwan	Zealand
Yes	Yes	Yes	Yes	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.