

1. Identification

Product Name	: LUS-175 Magenta	
Order No.	: LU175-M-BA	
General Use	: Ink jet printing ink	
Product Description	: UV Inkjet ink	
Manufacture		
Company Name	: Mimaki Engineering Co., Ltd.	
Address	2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN	
Telephone No.	:+81-268-64-2413	
Importer / Distributor Established in Singapore		
Company Name	: MIMAKI SINGAPORE PTE. LTD.	
Address	: 31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03	
Telephone No.	: +65-6508-2789	
Emergency Telephone No.	: +65 3165 2217 (within Singapore only)	
	$+65\ 3158\ 1074$	

2. Hazards Identification

[GHS Classification]		
Acute toxicity - Oral	Category 4	
Skin corrosion/irritation	: Category 2	
Serious eye damage/eye irritation	Category 1	
Sensitization - Skin	Category 1A	
Toxic to Reproduction	: Category 1B	
Specific target organ toxicity	Category 1	
(repeated exposure)		
Chronic aquatic toxicity	: Category 2	

[Label Elements]



Signal Word Danger

Hazard Statements H302 - Harmful if swallowed



H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H360Df - May damage the unborn child. Suspected of damaging fertility
H372 - Causes damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
Precautionary Statements
P201 - Obtain special instructions before use
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

[Other hazards]

Toxic to aquatic life.

[Hazards not otherwise classified (HNOC)]

Not Applicable.

3. Composition / Information on Ingredients

Substance/mixture: mixture

Chemical identity: No information available

Chemical Name	CAS No	EC No	weight-%
2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	256-360-6	20-30
2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	2399-48-6	219-268-7	20-30
2H-Azepin-2-one, 1-ethenylhexahydro-	2235-00-9	218-787-6	10-20
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-ylester, exo-	5888-33-5	227-561-6	5-15
Acrylate monomer	CBI	CBI	5-10
Colorant	CBI	CBI	1-5
Additives	CBI	CBI	1-5
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	278-355-8	1-5
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	423-340-5	<1
Photoinitiator	CBI	CBI	<1
Others	CBI	CBI	<1

4. First Aid Measures

[Description of first aid measures]

General advice

: Show this safety data sheet to the doctor in attendance. Do not delay care and transport of a seriously injured person. IF exposed or

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	concerned: Get medical advice/attention.	
Inhalation	: Move victim to fresh air. Get medical attention.	
Skin Contact	: Wash off immediately with soap and plenty of water while removing	
	all contaminated clothes and shoes. Get immediate medical	
	advice/attention.	
Eye Contact	: IF IN EYES: Rinse cautiously with water for several minutes.	
	Remove contact lenses, if present and easy to do. Continue rinsing.	
	Get immediate medical advice/attention.	
	Immediately call a POISON CENTER or doctor/physician.	
Ingestion	: Rinse mouth thoroughly with water. Never give anything by mouth	
	to an unconscious person. If vomiting occurs spontaneously, keep	
	head below hips to prevent aspiration. Get medical attention.	
[Most important symptoms and effects, both acute and delayed]		
Symptoms	: Prolonged contact may cause redness and irritation May cause	
	blindness Coughing and/ or wheezing Hives Itching May cause	
	allergy or asthma symptoms or breathing difficulties if inhaled	
	Rashes	
[Indication of any immediate medical attention and special treatment needed]		
Note to physicians	: May cause sensitization in susceptible persons.	

5. Fire Fighting Measures

Suitable Extinguishing	: Use CO2, dry chemical, or foam, Use extinguishing measures that
Media	are appropriate to local circumstances and the surrounding
	environment.
Unsuitable Extinguishing	: Do not use a solid water stream as it may scatter and spread fire.
Media	
Special hazards arising	Risk of ignition. The product causes irritation of eyes, skin and
from the substance or	mucous membranes. Thermal decomposition can lead to release of
mixture	irritating and toxic gases and vapors. Product is or contains a
	sensitizer. The product causes burns of eyes, skin and mucous
	membranes.
Advice for firefighters	: Firefighters should wear self-contained breathing apparatus and
	full firefighting turnout gear. Use personal protection equipment.



6. Accidental Release Measures

[Personal precautions, protective equipment and emergency procedures]		
Personal precautions	: Evacuate personnel to safe areas Ensure adequate ventilation,	
	especially in confined areas Keep people away from and upwind of	
	spill/leak Use personal protection recommended in Section 8 Avoid	
	contact with skin, eyes or clothing.	
For emergency	: Use personal protection recommended in Section 8.	
responders		
Environmental	Collect spillage. Do not allow into any sewer, on the ground or into	
Precautions	any body of water. Should not be released into the environment.	
[Methods and material for containment and cleaning up]		
Methods for containment	: Prevent further leakage or spillage if safe to do so Cover with plastic	
	sheet to prevent spreading Absorb or cover with dry earth, sand or	
	other non-combustible material and transfer to containers.	
Methods for cleaning up	: Use personal protective equipment as required Clean contaminated	
	surface thoroughly Pick up and transfer to properly labeled	
	containers Take up with sand or other non-combustible absorbent	
	material and place into containers for later disposal.	
Prevention of secondary	: Local authorities should be advised if significant spillages cannot be	
hazards	contained	
Reference to other	: See Section 12: ECOLOGICAL INFORMATION.	
sections		

7. Handling and Storage

[Precautions for Safe Handling]

Advice on safe handling	: Handle in accordance with good industrial hygiene and safety
	practice. Use personal protective equipment as required. Ensure
	adequate ventilation, especially in confined areas. Do not eat, drink or
	smoke when using this product.
General Hygiene	Regular cleaning of equipment, work area and clothing is
Considerations	recommended. Do not eat, drink or smoke when using this product.
	Wash hands before breaks and immediately after handling the
	product. Take off contaminated clothing and wash before reuse.
	Contaminated work clothing should not be allowed out of the
	workplace. Avoid breathing dust/fume/gas/mist/vapors/spray.

[Conditions for Safe Storage, including any Incompatibilities]

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Storage Conditions	[:] Keep away from heat. Keep container tightly closed. Keep in properly
	labeled containers. Store locked up.
[Specific end use(s)]	
Risk Management	[:] The information required is contained in this Safety Data Sheet.
Methods (RMM)	

8. Exposure Controls / Personal Protection

[Control parameters]

Exposure Limits

Chemical Name	ACGIH	Singapore
		STEL: 3 mg/m3
		STEL: 10 ppm
Caprolactam	TWA: 5 mg/m3 inhalable	STEL: 46 mg/m3
105-60-2	fraction and vapor	PEL: 1 mg/m3
		PEL: 5 ppm
		PEL: 23 mg/m3

Caprolactam is non-intentionally added substance, contains less than 1% in the product

[Appropriate engineering controls]

Engineering Controls	: Showers.
	Eyewash stations.
	Ventilation systems.
Personal protective equipment (PPE)	
Respiratory protection	: Vapor mask.
Hand Protection	: Impervious gloves.
Eye/face protection	: Face protection shield. Tight sealing safety goggles.
Skin and body	Rubber boots. Long sleeved clothing. Impervious clothing. Chemical
protection	resistant apron.

9. Physical and Chemical Properties

Appearance - Physical State	: liquid
- Color	: red
Odor	: Characteristic odor
Odor Threshold	: No data available
pH	: No data available

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Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 95 °C / 203 °F (Acceptance by the lowest flash point)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability Limits in Air	: No data available
Upper flammability limits	
Lower flammability limit	
Vapor Pressure	: No data available
Vapor density	: No data available
Specific gravity	: 1.0-1.1
Water solubility	: Immiscible in water
Solubility(ies)	: No data available
Partition coefficient	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: 7-12 mPa·s(25 deg.C)
[Other information]	
Molecular weight	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Softening point	: No data available
VOC Content (%)	: No data available
Density	: No data available
Bulk density	: No data available

10. Stability and Reactivity

Reactivity	: No information available.
Chemical stability	: Stable under the normal storage and use.
Explosion data	: Sensitivity to Mechanical Impact: None.
	Sensitivity to Static Discharge: Yes
Possibility of Hazardous	: No information available
Reactions	
Hazardous	: None under normal processing.



polymerization	
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Finely powdered metals.
Hazardous	: None known based on information supplied.
Decomposition Products	

11. Toxicological Information

Inhalation	: Irritating to respiratory system.
Eye contact	: Irritating to eyes. Causes serious eye damage. May cause irreversible
	damage to eyes.
Skin contact	[:] Harmful in contact with skin. Causes skin irritation. Repeated or
	prolonged skin contact may cause allergic reactions with susceptible
	persons.
Ingestion	: Harmful if swallowed. Ingestion may cause irritation to mucous
	membranes. May be harmful if swallowed and enters airways.
Symptoms	[:] Coughing and/ or wheezing. May cause redness and tearing of the eyes
	redness burning. May cause blindness. Hives Itching May cause
	allergic skin reaction Rashes.

Unknown Acute Toxicity

5.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

34.2 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD50	Dermal LD50
Product	ATEmix = 1854.6 mg/kg	ATEmix = 2023.9 mg/kg

In calculating the ATE for product classification, the converted acute toxicity value estimate is used.

[Delayed and immediate effects as well as chronic effects from short and long-term exposure]

Skin corrosion	: Based on available data, the classification criteria are not met.
	In Vitro Acute Dermal Corrosivity Study Episkin test GLP OECD
	TG431. In this in vitro EPISKIN model test with similar product, the
	result indicates that the product is non-corrosive to the skin.
Skin irritation	: Classification is based on mixture calculation methods based on
	component data. Irritating to skin.

Μιπακι

Safety Data Sheets

Product Name: LUS-175 Magenta SDS No. 037-U193155 First issue: 2017/09/13 Revised: 2023/01/07

Serious eye	Classification is based on mixture calculation methods based on
damage/eye irritation	component data Risk of serious damage to eyes.
Respiratory or skin	Classification is based on mixture calculation methods based on
sensitization	component data May cause sensitization by skin contact May cause
	sensitization in susceptible persons.
Germ cell	Classification is based on mixture calculation methods based on
mutagenicity	component data Based on available data, the classification criteria are
	not met.
Carcinogenicity	Classification is based on mixture calculation methods based on
	component data Based on available data, the classification criteria are
	not met.
Reproductive toxicity	Classification is based on mixture calculation methods based on
	component data Contains material that may cause adverse
	reproductive effects.
STOT - single	Classification is based on mixture calculation methods based on
exposure	component data Based on available data, the classification criteria are
	not met.
STOT - repeated	Classification is based on mixture calculation methods based on
exposure	component data Causes damage to organs through prolonged or
	repeated exposure.
Aspiration hazard	Classification is based on mixture calculation methods based on
	component data Based on available data, the classification criteria are
	not met.

12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it. Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch. Ecotoxicity : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Caprolactam	EC50 (72h): = 130 mg/L	LC50 (96h, static): = 930	EC50 (48h): 828 - 2920
	(Desmodesmus subspicatus)	mg/L (Lepomis macrochirus)	mg/L (Daphnia magna)
	EC50 (96h): = 160 mg/L	LC50 (96h, static): = 1400	EC50 (48h): > 500 mg/L
	(Desmodesmus subspicatus)	mg/L (Pimephales promelas)	(Daphnia magna Straus)
	EC50 (72h): 4320 – 4800 mg/L		
	(Pseudokirchneriella)		

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Caprolactam is non-intentionally added substance, contains less than 1% in the product

Persistence and	: No data available.
Degradability	
Bioaccumulation	: No data available.
Mobility	: No data available.
Other adverse effects	: No data available.

13. Disposal Considerations	
[Waste treatment methods	s]
Waste from Residues /	: Disposal should be in accordance with applicable regional, national
Unused Products	and local laws and regulations.
Contaminated	: Disposal should be in accordance with applicable regional, national
packaging	and local laws and regulations. Improper disposal or reuse of this
	container may be dangerous and illegal.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of col	lapse of cargo surely.
[IMDG]	
UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic
	acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic
	acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III
Marine pollutant	: This material meets the definition of a marine pollutant
Environmental hazard	: Yes
Special Provisions	: 2.10.2.7 *1
EmS-No	: F-A, S-F
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-,
	2-Propenoic acid, 2-phenoxyethyl ester), 9, III
[RID]	
UN/ID no	: UN3082

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Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III
Environmental hazard	: Yes
Classification code	: M6
Special Provisions	274, 335, 375, 601
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-,
	2-Propenoic acid, 2-phenoxyethyl ester), 9, III
[ADR]	
UN/ID no	: UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic
	acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic
	acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III
Marine pollutant	: This material meets the definition of a marine pollutant
Environmental hazard	: Yes
Special Provisions	274, 335, 601, 375
Classification code	÷ M6
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-,
	2-Propenoic acid, 2-phenoxyethyl ester), 9, III
[IATA]	
UN/ID no	: UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic
	acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic
	acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III
Environmental hazard	: Yes
Special Provisions	: A197 *1
ERG Code	: 9L
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-,



	2-Propenoic acid, 2-phenoxyethyl ester), 9, III
[ADN]	
UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (2-Propenoic
	acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-, 2-Propenoic
	acid, 2-phenoxyethyl ester)
Hazard Class	: 9
Packing Group	: III
Environmental hazard	: Yes
Special Provisions	274, 335, 375, 601
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-,
	2-Propenoic acid, 2-phenoxyethyl ester), 9, III

*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.

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: Not Applicable			
: Not Applicable			
: Not Applicable			
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	: Not Applicable : Not Applicable	: Not Applicable : Not Applicable	: Not Applicable : Not Applicable

We adopted 1.0% or more as a threshold value in case of no provision in a law.

Mimaki

Safety Data Sheets

EU CLP (1272/2008) Annex VI Table3

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