

1. Identification

Product Name	: LUS-170 Magenta
Order No.	: LUS17-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 Australia	
Company Name	: MIMAKI AUSTRALIA PTY LTD.
Address	: Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia
Telephone No.	: + 61-2-8036-4500
Emergency Telephone No.	: +61 2 8014 4558 (within Australia only)
	18000 74234 (within Australia only)
	$+65\ 3158\ 1074$

2. Hazards Identification

Classified as a hazardous product in accordance with the criteria of Safe Work Australia -Globally Harmonized System (GHS)

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

[GHS Classification]

Acute Toxicity – Oral	Category 4
Skin Corrosion / Irritation	Category 2
Eye Damage / Irritation	: Category 1
Sensitization - Skin	: Category 1A
Toxic to Reproduction	: Category 1B
Specific Target Organ Toxicity	Category 1
(Repeated Exposure)	
Hazardous to the Aquatic	: Category 2
Environment - Acute Hazard	
Hazardous to the Aquatic	: Category 2
Environment - Long Term Hazard	

The above list does not include category being non-classifiable or not-applicable.





Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.

H315 Causes skin irritation

H318 Cause serious eye damage

H317 May cause an allergic skin reaction

H360 May damage fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure(Liver, respiratory tract)

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's Operation Manual before use.

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

P260 Do not breathe gas/mist.

P264 Wash hands and eyes thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

 $\mathrm{P272}$ Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

 ${\rm P273}\,{\rm Avoid}$ release to the environment.

[Response]

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

(P301)+P330 (IF SWALLOWED): Rinse mouth.

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.

(P305)+P310 (IF IN EYES): Immediately call a POISON CENTER or doctor/physician.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

[Storage]

P405 Store locked up.

[Disposal]

P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

[Other hazards]

Not Applicable.



Safety Data Sheets

3. Composition / Information on Ingredients

Substance/mixture: mixture		
Chemical Name	CAS No	weight-%
2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	20-30
2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	2399-48-6	20-30
2H-Azepin-2-one, 1-ethenylhexahydro-	2235-00-9	10-20
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5	5-15
Acrylate monomer	CBI	5-10
Colorant	CBI	1-5
Additives	CBI	1^{-5}
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	1-5
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	<1
Photoinitiator	CBI	<1
Others	CBI	<1

4. First Aid Measures		
[Description of first aid mea	sures]	
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	
	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.	
Self-protection of the first	: Wear personal protective clothing (see section 8). Do not use	
aider	mouth-to-mouth method if victim ingested or inhaled the substance;	
	give artificial respiration with the aid of a pocket mask equipped with	
	a one-way valve or other proper respiratory medical device.	

MIMCIKI Safety Data Sheets

[Symptoms caused by exposure]

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.	
[Medical attention and specialtreatment]		
Note to physicians	: May cause sensitization of susceptible persons.	

5. Fire Fighting Measures

Flammable Properties	$^\circ$ Flash Pont、95 $^\circ$ C / 203 $^\circ$ F
Suitable Extinguishing	: Use CO2, dry chemical, or foam, Use extinguishing measures that
Media	are appropriate to local circumstances and the surrounding
	environment
Unsuitable Extinguishing	: DDo not use a solid water stream as it may scatter and spread fire.
Media	
Specific hazards arising	Risk of ignition. The product causes irritation of eyes, skin and
from the chemical	mucous membranes. Thermal decomposition can lead to release of
	irritating and toxic gases and vapors. Product is or contains a
	sensitizer. The product causes burns of eyes, skin and mucous
	membranes.
Special protective	: Firefighters should wear self-contained breathing apparatus and
equipment and	full firefighting turnout gear. Use personal protection equipment.
precautions for fire	
fighters	

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	: Prevent entry into waterways, sewers, basements or confined areas.	
Precautions		

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[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.
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]		
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	Australia	ACGIH
Caprolactam	10 mg/m3	TWA: 5 mg/m3 inhalable fraction
105-60-2	1 mg/m3	and vapor



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

[Appropriate engineering co	ntrols]	
Engineering Controls	: Showers.	
	Eyewash stations.	
	Ventilation systems.	
Individual protection meas	ures, such as personal protective equipment	
Eye/face protection	: Face protection shield. Tight sealing safety goggles.	
Hand Protection	: Impervious gloves.	
Skin and body	: Rubber boots. Long sleeved clothing. Impervious clothing. Chemical	
protection	resistant apron.	
Respiratory	: Vapor mask.	
protection		
Environmental	: Do not allow into any sewer, on the ground or into any body of water.	
exposure controls		

9. Physical and Chemical Properties

Appearance - Physical State	: liquid
- Color	: red
Odor	: Characteristic odor
Odor Threshold	: No data available
pH	: No data available
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
Solubility(ies)	: Immiscible in water
Partition coefficient	: No data available

MINCIKI Safety Data Sheets

Product Name: LUS-170 Magenta SDS No. 037-U183071 First issue: 2017/09/12 Revised: 2024/06/17

Autoignition temperature	: 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

[Information on likely routes of exposure]		
Acute Toxicity		
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	

Mimciki Safety Data Sheets

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 = 1854.6mg/kg	ATEmix = 2023.9mg/kg

Acute toxicity 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.
Serious eye damage/eye	: Classification is based on mixture calculation methods based on
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 mutagenicity	\therefore Classification is based on mixture calculation methods based on
	component data. Based on available data, the classification criteria are
	not met.
Carcinogenicity	\therefore Classification is based on mixture calculation methods based on
	component data Based on available data, the classification criteria are
	not met.
Reproductive toxicity	\therefore Classification is based on mixture calculation methods based on



Safety Data Sheets

	component data. Contains material that may cause adverse
	reproductive effects.
STOT - single exposure	: Classification is based on mixture calculation methods based on
	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)		

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

Persistence and	: No data available.
Degradability	
Bioaccumulative	: No data available.
potential	
Mobility in soil	: No data available.
Other adverse effects	: No data available.

13. Disposal Considerations

[Waste treatment methods]

Waste from Residues / : Disposal should be in accordance with applicable regional, national

MIMCIKI Safety Data Sheets

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 collapse of cargo surely.

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, 331, 335, 375, AU01
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
[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
[r.em.]	



Safety Data Sheets

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

*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 Inf	ormation
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[Safety, health and environmental regulations/legislation specific for the substance or mixture] See section 8 for national exposure control parameters

bee section o for national exposure control parameters		
Major hazard	: Not applicable	
(accident/incident		
planning) regulation		
National pollutant	: Not applicable	
inventory (Subject to		
reporting requirement)		
BANNED and/or	: This product does not contain substances subject to prohibition,	
restricted	authorization or restriction.	
International	AICS-Australia-Australian Inventory of Chemical Substances.	
Inventories	Complies	

16. Other Information

[Key or legend to abbreviations and acronyms used in the safety data sheet]

ACGIH (American Conference of Governmental Industrial Hygienists)

[Key literature references and sources for data]

No information available

[Reference]

Μιπακι

Safety Data Sheets

LOLI Database (ChemADVISOR,Inc.) Work Heaith and Safty(WHS) Regulation2011 [The reference on GHS classification results] EU CLP(1272/2008)Annex VI Table 3 [Disclaimer] This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process. Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

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