

## 1. Identification

Product Name	: LUS-150 Yellow	
Order No.	: LUS15-Y-BA	
Ink Ver.	:1	
General Use	: Ink jet printing ink	
Product Description	: UV Inkjet Ink	
SDS Number	: 037- U080298	
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 USA		
Company Name	: MIMAKI USA, INC.	
Address	: 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A.	
Telephone No.	: +1-678-730-0170	
Emergency Telephone No.	: +1 866 928 0789 (within United States only)	
	$+1\ 215\ 207\ 0061$	

2. Hazards Identification	
[HCS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Skin Corrosion / Irritation	: Category2
Eye Damage / Irritation	: Category2
Sensitization – Skin	: Category1A
Carcinogenicity	Category 2
Toxic to Reproduction	: Category2
Specific Target Organ Toxicity	: Category3
(Single Exposure)	
Specific Target Organ Toxicity	: Category1
(Repeated Exposure)	

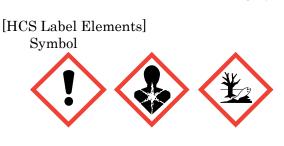
Environmental Hazards



Hazardous to the Aquatic : Cate Environment - Long Term Hazard

Category2

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



Signal Word Danger

Hazard Statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection. [Response]

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P391 Collect spillage.

[Storage]

P403+P233 Store in a well-ventilated place. Keep container tightly closed P405 Store locked up.



Product Name: LUS-150 Yellow SDS No. 037-U080298 First issue: 2012/10/12 Revised: 2024/03/03

[Disposal]

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

[Hazards not otherwise classified (HNOC)]

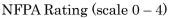
Not classified

[Other hazards]

May be harmful in contact with skin.

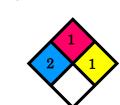
Toxic to aquatic life with long lasting effects.

Toxic to aquatic life.

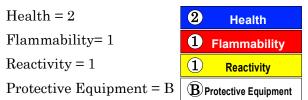


Health = 2 Flammability = 1 Instability = 1

Special =



HMIS Rating (scale 0 - 4)



#### 3. Composition / Information on Ingredients

No	Chemical Name	CAS No.	Wt%
1	N-vinylcaprolactam	2235-00-9	15 - 30
2	Isobornyl acrylate ester	5888-33-5	15-30
3	2-Phenoxyethyl acrylate	48145-04-6	15-30
4	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	1-5
5	2,4,6-Trimethylbenzoyl diphenyl Phosphine Oxide	75980-60-8	1-5
6	Trimethylolpropane triacrylate	15625-89-5	1-5
7	Tripropylene glycol diacrylate	42978-66-5	0.5-1.5

#### 4. First Aid Measures

[First aid measures for different exposure routes]

General advice	: Do not get in eyes, on skin, or on clothing.
	If symptoms persist, call a physician.
Eye Contact	: IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
Skin Contact	: IF ON SKIN: Wash with plenty of soap and water.
	If skin irritation or rash occurs: Get medical advice/attention.

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Inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position
	comfortable for breathing.
	Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion	: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	Immediately call a POISON CENTER or doctor/ physician.
Protection of First-aiders	: Use personal protective equipment.
Most important	: May cause redness, itching, and pain. May cause allergic skin
symptoms/effects, acute	reaction.
and delayed	
Indication of Immediate	: May cause sensitization of susceptible persons.
Medical Attention and	Treat symptomatically.
Special Treatment	
Needed, If necessary	

## 5. Fire Fighting Measures

Flammable Properties	: Not appricable
Suitable Extinguishing	: Use extinguishing measures that are appropriate to local
Media	circumstances and the surrounding environment.
Unsuitable Extinguishing	$\div$ Do not use a solid water stream as it may scatter and spread fire.
Media	
Special Hazards Arising	: Thermal decomposition can lead to release of irritating gases and
from the Chemical	vapors. In the event of fire and/or explosion do not breathe
	fumes. May cause sensitization by inhalation and skin contact. May $% \left( {{{\left[ {{{\rm{m}}} \right]}_{{\rm{m}}}}_{{\rm{m}}}} \right)$
	cause sensitization by skin contact.
Hazardous Combustion	: Nitrogen oxides (NOx). Carbon oxides.
Products	
Explosion Data	Sensitivity to Mechanical Impact ; none
	Sensitivity to Static Discharge ; none
Protective Equipment	: As in any fire, wear self-contained breathing apparatus
and Precautions for	pressure-demand, MSHA/NIOSH (approved or equivalent) and full
Firefighters	protective gear.



#### 6. Accidental Release Measures

Personal Precautions,	: Use personal protective equipment.
Protective Equipment	Avoid contact with the skin and the eyes.
and Emergency	Evacuate personnel to safe areas.
Procedures	Keep people away from and upwind of spill/leak.
Environmental	: Prevent entry into waterways, sewers, basements or confined areas.
precautions	Do not flush into surface water or sanitary sewer system.
	Prevent further leakage or spillage if safe to do so.
	Prevent product from entering drains.
Methods and Materials	: Methods for Containment
for Containment and	Prevent further leakage or spillage if safe to do so.
Cleaning Up	Methods for cleaning up
	Use personal protective equipment.
	Dam up.
	Cover liquid spill with sand, earth or other noncombustible absorbent
	material.
	Take up mechanically, placing in appropriate containers for disposal.
	Clean contaminated surface thoroughly.
	Soak up with inert absorbent material.
	Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

Precautions for Safe	: Ensure adequate ventilation.
Handling	Wear personal protective equipment.
	Use only in area provided with appropriate exhaust ventilation.
	Do not breathe vapors or spray mist.
	Avoid exposure during pregnancy.
Conditions for Safe	: Keep container tightly closed.
Storage, including any	Keep containers tightly closed in a cool, well-ventilated place. Keep in
Incompatibilities	properly labeled containers.



[Control parameters]	
Exposure Guidelines	: This product does not contain any hazardous materials with
	occupational exposure limits established by the region specific
	regulatory bodies.
[Exposure Controls]	
Engineering Measures	: Ventilation systems
[Individual Protection Meas	sures, such as Personal Protective Equipment]
<b>Respiratory Protection</b>	: If exposure limits are exceeded or irritation is experienced,
	NIOSH/MSHA approved respiratory protection should be worn.
	Positive-pressure supplied air respirators may be required for high
Vapor Respirator	airborne contaminant concentrations. Respiratory protection must be
	provided in accordance with current local regulations.
Glove	: Wear protective gloves/clothing.
Recommendations	
Gloves	
Eye /Face	<sup>:</sup> Tightly fitting safety goggles. Face-shield.
Protection	
Safety Glasses	
Skin Protection	: Wear protective gloves/clothing.
Protective	
General Hygiene	: When using do not eat, drink or smoke.
Considerations	Take off contaminated clothing and wash before reuse.
	Regular cleaning of equipment, work area and clothing is
	recommended.

# 9. Physical and Chemical Properties

Appearance - Physical State

# **Mimciki** Safety Data Sheets

Product Name: LUS-150 Yellow SDS No. 037-U080298 First issue: 2012/10/12 Revised: 2024/03/03

Odor: AcrylatesOdor Threshold: Not availablepH: Not availableSpecific Gravity: ~ 1.08Molecular Weight: Not availableFlash Point: Not appricableAuto ignition temperature: Not availableDecomposition Temperature: Not availableBoiling Point / Boiling Range: 232 °F / 111 °CMelting Point / Melting Range: Not availableFreezing Point: Not availableFlammability Limit in Air: Not availableOxidizing Properties: Not availableSolubility: Immiscible in waterPartition Coefficient: Not availableEvaporation Rate: Not availableVapor Pressure: <1 mm/Hg (@ 20 C)
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Evaporation Rate : Not available
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Vanor Prossuro $: < 1 \text{ mm/Hg} (@ 90 \text{ C})$
Vapor Density : Not available
Density : Not available
Weight per Gallon (lbs) :~9.0
Actual VOC (lb/gal) :<0.18
VOC (lb/gal): Not available
VOC (g/l) : Not available
Dynamic viscosity : Not available
[VOC Content California]
VOC Content of Material: <22 grams per liter
VOC Content of Coating less Water and Exempt Solvents :<22 grams per liter

# 10. Stability and Reactivity

Reactivity	: Stable under recommended storage conditions.
Chemical Stability	: Stable under recommended storage conditions.
Possibility of Hazardous	: None under normal processing.
Reactions	Hazardous polymerization may occur.

# **Mimciki** Safety Data Sheets

Conditions to Avoid	: Extremes of temperature and direct sunlight.
Incompatible Materials	: Strong oxidizing agents, strong acids, and strong bases.
Hazardous	: Carbon oxides. Nitrogen oxides (NOx).
<b>Decomposition</b> Products	

## 11. Toxicological Information

[Information on likely rou	tes of exposure]
[Product Information]	
Acute Toxicity	
Inhalation	: May be harmful if inhaled. May cause irritation of respiratory tract.
Eyes	: Irritating to eyes.
Skin	: Irritating to skin. Repeated or prolonged skin contact may cause
	allergic reactions with susceptible persons.
	May be harmful in contact with skin. May cause inflammation.
Ingestion	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and
	diarrhea. Ingestion may cause irritation to mucous membranes.
	May be harmful if swallowed.

### [Component Information]

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
Tripropylene glycol diacrylate	=3,000mg/kg	> 2 g/kg	
	( Rat )	(Rabbit)	

### [Information on toxicological effects]

No information available.

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

Irritation	: Irritating to eyes and skin.		
Corrosivity	: No information available.		
Sensitization	: May cause ser	nsitization by skin contact.	
Mutagenic Effects	: No informatio	n available.	
Reproductive Toxicity	: No informatio	n available.	
Carcinogenicity	<sup>:</sup> Trimethylolpropane triacrylate(CAS No. 15625-89-5)		
	IARC	Monograph 122 [2019](technical grade)	
	IANC	(Group 2B (possibly carcinogenic to humans))	
	OSHA	Hazard Communication Carcinogens: Present	
STOT - single exposure	No information available.		
STOT - repeated	: No information available.		
exposure			



Chronic toxicity	: Experiments have shown reproductive toxicity effects on laboratory	
	animals. May adversely affect liver and kidney. Repeated contact may	
	cause allergic reactions in very susceptible persons.	
Target Organ Effects	: Eyes, Lymphatic System, Respiratory system.	
Aspiration hazard	: No information available.	
[Numerical measures of to:	xicity - Product Information]	
The following values a	re calculated based on chapter 3.1 of the GHS document.	
ATEmix (oral)	: 1,175 mg/kg	
ATEmix (dermal)	÷2,584 mg/kg	
ATE: Acute toxicity est	timate	

#### 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		<sup>:</sup> Toxic to aquatic life with long lasting effects.
<b>р</b> • /	1	· NT · C · · · · · 1 11

Persistence and : No information available.

:

Degradability

Bioaccumulation

	Chemical Name		Octonol Water Partition Coefficient (log pow)
	Tripropylene glycol diacrylate		2.77
Mobility : No inform		: No inform	mation available.
Other adverse effects : No inform		: No inform	mation available.

#### 13. Disposal Considerations

Disposal Methods	: Dispose of in accordance with all applicable national environmental
	laws and regulations. Dispose of in accordance with federal,state, and
	local regulations.
	Do not dump this product into sewers, on the ground or into any body
	of water.
Contaminated	: Do not re-use empty containers.
Packaging	

#### 14. Transport Information



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Check a thing without a leak in a co	ontainer. Periorm prev	ention of conabse of cargo surely.
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DOT	Not regulated		
TDG	Not regulated		
MEX	Not regulated		
ICAO	Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s	
	UN/ID No	UN3082	
	Hazard Class	9	
	Packing Group	III	
	Description	Environmentally hazardous substance, liquid, n.o.s	
IATA	Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s	
	UN/ID No	UN3082	
	Hazard Class	9	
	Packing Group	III	
	Description	Environmentally hazardous substance, liquid, n.o.s	
IMDG	Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s	
	UN/ID No	UN3082	
	Hazard Class	9	
	Packing Group	III	
	Description	Environmentally hazardous substance, liquid, n.o.s	
ADR/RID	Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s	
	UN/ID No	UN3082	
	Hazard Class	9	
	Packing Group	III	
	Description	Environmentally hazardous substance, liquid, n.o.s	

Remarks : Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

## 15. Regulatory Information

: Yes
:Yes
:Yes
:Yes
: No



IECSC	: Yes	
KECL	: No	
AICS	: Yes	
*Yes - All co	omponent(s) of this product are	included or are exempt from listing on the inventory.
*No - Indica	ates the component(s) of this pr	oduct are either not listed or have not been
determined	to be listed on the inventory.	
TSCA - United	States Toxic Substances Control Act Sec	tion 8(b) Inventory
DSL/NDSL - C	anadian Domestic Substances List/Non-	Domestic Substances List
EINECS/ELIN	ICS - European Inventory of Existing Ch	emical Substances/European List of Notified Chemical Substances
ENCS - Japan	Existing and New Chemical Substances	
IECSC - China	a Inventory of Existing Chemical Substan	nces
KECL - Korean	n Existing and Evaluated Chemical Subs	stances
PICCS - Philip	ppines Inventory of Chemicals and Chem	ical Substances
AICS - Austral	lian Inventory of Chemical Substances	

### [U.S. Federal Regulations]

TSCA Sections 4, 5 and	: This product does not contain any chemicals regulated by TSCA
12(b)	Sections 4, 5 or 12(b).
SARA 313	: Section 313 of Title III of the Superfund Amendments and
	Reauthorization Act of 1986 (SARA).
	This product contains a chemical or chemicals which are subject to
	the reporting requirements of the Act and Title 40 of the Code of

Chemical Name	CAS No	SARA 313 - Threshold Values %		Weight-%	
2-Phenoxyethyl acrylate	48145-04-6	1.0		15-30	
SARA 311/312 Hazard	: Acute Health Hazar	·d;	Yes		
Categories	Chronic Health Hazard ;		Yes		
	Fire Hazard		No		
	Sudden Release of Pressure Hazard ; No		No		
	Reactive Hazard	;	Yes		
Clean Water Act	: This product does not contain any substances regulated as				
	pollutants pursuant	lutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 $$			
	CFR 122.42).				
CERCLA	CLA : This material, as supplied, does not contain any substances			ances	
	regulated as hazardous substances under the Comprehensive				

Federal Regulations, Part 372:

# **MIMCIKI** Safety Data Sheets

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Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

[U.S. State Regulations] California Proposition 65

### : WARNING

 $\wedge$ 

This product can expose you to chemicals including Trimethylolpropane triacrylate which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

[U.S. State Right-to-Know Regulations]

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Phenoxyethyl acrylate		×	×	×	

[International Regulations]

Canada - NDSL : This product does not contain any NDSL chemicals.

Mexico - Grade : Slight risk, Grade 1

[Mexico - Carcinogen Status and Exposure Limits]

No information available.

[Other Regulations]

No information available.

CPSIA	: Formulated to comply.
CONEG	: Formulated to comply.
ASTM F-963	: Formulated to comply.
CHPA	: Formulated to comply.
ROHS	: Formulated to comply.
REACH/SVHC	: Formulated to comply.
EN-71	: Formulated to comply.

#### 16. Other Information

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.



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Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.