

1. Identification

Product Name	: LUS-150 White		
Order No.	: LUS15-W-BA		
Ink Ver.	:1		
General Use	: Ink jet printing ink		
Product Description	: UV Inkjet Ink		
SDS Number	: 037- U080299		
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)	

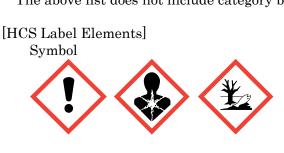
Environmental Hazards



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.



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[Disposal]

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

[Hazards not otherwise classified (HNOC)]

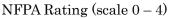
Not classified

[Other hazards]

May be harmful in contact with skin.

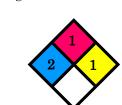
Toxic to aquatic life with long lasting effects.

Toxic to aquatic life.

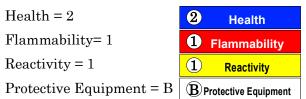


Health = 2 Flammability = 1 Instability = 1

Special =



HMIS Rating (scale 0 - 4)



3. Composition / Information on Ingredients

No	Chemical Name	CAS No.	Wt%
1	Trimethylolpropane formalacrylate	66492-51-1	10-30
2	N-vinylcaprolactam	2235-00-9	10-30
3	Isobornyl acrylate ester	5888-33-5	10-30
4	2-Phenoxyethyl acrylate	48145-04-6	10-30
5	2,4,6-Trimethylbenzoyl diphenyl Phosphine Oxide	75980-60-8	10-30
6	Phosphated alkoxylated polymer	37280-82-3	1-5
7	Ethylene glycol phenyl ether	122-99-6	1-5
8	Trimethylolpropane triacrylate	15625-89-5	0.1-1

The exact percentage (concentration) of composition has been withheld as a trade secret

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.

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Skin Contact	: IF ON SKIN: Wash with plenty of soap and water.		
	If skin irritation or rash occurs: Get medical advice/attention.		
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	: 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
	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.

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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.



8. Exposure Controls / Personal Protection

[Control parameters] Exposure Guidelines

: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
Trimethylolpropane triacrylate				1 mg/m3 TWA

[Exposure Controls]

Engineering Measures : Ventilation systems

[Individual Protection Measures, such as Personal Protective Equipment]

Respiratory Protection : If exposure limits are exceeded or irritation is experienced,



Glove Recommendations



: Tightly fitting safety goggles. Face-shield.



Protection



General Hygiene Considerations NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

: Wear protective gloves/clothing.

: Wear protective gloves/clothing.

: When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse.

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Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

Appearance - Physical State	: liquid (@20°C)
- Color	÷white
Odor	Acrylates
Odor Threshold	: Not available
pH	: Not available
Specific Gravity	:~1.2
Molecular Weight	: Not available
Flash Point	: Not appricable
Auto ignition temperature	: Not available
Decomposition Temperature	: Not available
Boiling Point / Boiling Range	: 232 °F / 111 °C
Melting Point / Melting Range	: Not available
Freezing Point	: Not available
Flammability Limit in Air	: Not available
Oxidizing Properties	: Not available
Explosive Property Details	: Not available
Solubility	: Immiscible in water
Partition Coefficient	: Not available
Evaporation Rate	: Not available
Vapor Pressure	: <1 mm/Hg (@ 20 C)
Vapor Density	: Not available
Density	: Not available
Weight per Gallon (lbs)	:~9.98
Actual VOC (lb/gal)	:<0.20
VOC (lb/gal)	: Not available
VOC (g/l)	: Not available
Dynamic viscosity	: Not available
OC Content California]	
VOC Content of Material	:<24 grams per liter
VOC Content of Coating less Water	and Exempt Solvents :<24 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.
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).
Decomposition Products	

11. Toxicological Information

[Information on likely routes of exposure]	
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[Product Information]

Acute Toxicity

Inhalation	: May be harmful if inhaled. Irritating to respiratory system.
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	: May be harmful if swallowed. Ingestion may cause gastrointestinal
	irritation, nausea, vomiting and diarrhea.
	Ingestion may cause irritation to mucous membranes.

[Component Information]

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal
			concentration)
Isobornyl acrylate ester	= 4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	
2-Phenoxyethyl acrylate	= 4660 µL/kg (Rat)	= 2540 µL/kg (Rabbit)	
Ethylene glycol phenyl ether	=1,260mg/kg (Rat)	> 5mL/kg (Rabbit)	
Trimethylolpropane	= 5190 µL/kg (Rat) =	= 5000 mg/kg (Rabbit)	
triacrylate	5190 mg/kg (Rat)		

[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.

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Sensitization	: May cause sensitization by skin contact.			
Mutagenic Effects	: No information available.			
Reproductive Toxicity	[:] Product is or contains a chemical which is a known or suspected			
	reproductive hazard.			
Carcinogenicity	[:] Trimethylolpropane triacrylate(CAS No. 15625-89-5)			
	LADO	Monograph 122 [2019](technical grade)		
	IARC	(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, Skin, Reproductive			
	system.			
Aspiration hazard	: No information available.			
[Numerical measures of to	xicity - Product In	nformation]		
The following values are calculated based on chapter 3.1 of the GHS document.				
ATEmix (oral)	: 1,516 mg/kg			
ATEmix (dermal)	2,515 mg/kg			
ATE: Acute toxicity estimate				

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 with long lasting effects.
Persistence and	: No information available.
Degradability	
Bioaccumulation	:

Chemical Name		Octonol Water Partition Coefficient (log pow)
Ethylene glycol phen	yl ether	1.13
Mobility	: No information available.	
Other adverse effects	: No information 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 : Do not re-use empty containers.

14. Transport Information

Check a thing without a leak in a container. Perform prevention of collapse of cargo surely.

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	.s
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Remarks : Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations.

Refer to ICAO/IATAA197, IMDG 2.10.2.7, ADR SP 375.

15. Regulatory Informa	ition		
[International Inventor	ies]		
TSCA	: Yes		
DSL/NDSL	: Yes		
PIC CS	: No		
EINECS/ELINCS	: No		
ENCS	: No		
IECSC	: Yes		
KECL	: No		
AICS	: Yes		
*Yes - All componen	ht(s) of this product are included or are exempt from listing on the inventory.		
*No - Indicates the	component(s) of this product are either not listed or have not been		
determined to be lis	sted on the inventory.		
TSCA - United States To:	xic Substances Control Act Section 8(b) Inventory		
DSL/NDSL - Canadian D	Oomestic Substances List/Non-Domestic Substances List		
EINECS/ELINCS - Euro	EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances		
ENCS - Japan Existing and New Chemical Substances			
IECSC - China Inventory	IECSC - China Inventory of Existing Chemical Substances		
KECL - Korean Existing	KECL - Korean Existing and Evaluated Chemical Substances		
PICCS - Philippines Inve	entory of Chemicals and Chemical Substances		

AICS - Australian 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
	Federal Regulations, Part 372:



	1	I	1		
Chemical Name	CAS No	SARA 313 - Threshold	Weight-%		
		Values %	_		
2-Phenoxyethyl acrylate	48145-04-6	1.0	15-30		
Ethylene glycol phenyl	199.00.0	1.0	1-5		
ether	122-99-6	1.0	1-5		
SARA 311/312 Hazard	: Acute Health Hazar	rd ; Yes			
Categories	Chronic Health Haz	zard ; Yes			
	Fire Hazard	; No			
	Sudden Release of Pressure Hazard ; No				
	Reactive Hazard ; Yes				
Clean Water Act	: This product does not contain any substances regulated as				
	pollutants pursuant to the Clean Water Act (40 CFR 122.21 an				
	CFR 122.42).				
CERCLA	[:] This material, as supplied, does not contain any substances				
	regulated as hazardous substances under the Comprehensive				
	onse Compensation and Liability A	.ct			
(CERCLA) (40 CFR 302) or the Superfund Amendments and					
	Reauthorization Act	(SARA) (40 CFR 355).			
	There may be specific reporting requirements at the local, regiona				
or state level pertaining to releases of this material.					
[U.S. State Regulations]					
California Proposition 65					
	This product of	can expose you to chemicals includi	ng Titanium		

dioxide and 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		×	×	×	
Ethylene glycol phenyl		×	×	×	
ether					

[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.

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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.

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