

1. Identification

Product Name	: LUS-350 White	
Order No.	: LUS35-W-BA	
Ink Ver.	:2	
General Use	: Ink jet printing ink	
Product Description	: UV Inkjet Ink	
SDS Number	: 037-U131077	
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 NE , 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, Toll free)	
	$+1\ 215\ 207\ 0061$	

2. Hazards Identification

[HCS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Acute Toxicity – Oral	Category 4
Acute Toxicity – Dermal	Category 4
Skin Corrosion / Irritation	Category 2
Serious Eye Damage / Irritation	Category 2A
Sensitization / Skin	Category 1A
Toxic to Reproduction	Category 2
Specific Target Organ Toxicity	Category 1 (liver, respiratory system)
(Repeated Exposure)	

Environmental Hazards



Hazardous to the Aquatic: Category 1Environment - Acute Hazard:Hazardous to the Aquatic: Category 1Environment - Long Term Hazard:

The above list does not include category being non-classifiable or not-applicable. [HCS Label Elements]





Signal Word Danger

Hazard Statements

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

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

H410 Very 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/vapours/spray.

P264 Wash hands thoroughly after handling.

 $\mathrm{P270}$ Do not eat, drink or smoke when using this product.

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]

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

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.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

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 before reuse.

P391 Collect spillage.

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[Storage] P405 Store locked up. [Disposal] P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified). [Statement(s) of Unknown Acute Toxicity] 85% of the mixture consists of ingredient(s) of unknown acute toxicity.

HMIS Rating (scale 0 - 4)

Health = 2

Flammability= 1

Reactivity = 1

Protective Equipment =



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Photosensitive resin	70-80	Trade Secret
2	Titanium dioxide	5-15	13463-67-7
3	Photoinitiator	5-15	Trade Secret
4	Pigment	1-5	Trade Secret
5	Additive	1-5	Trade Secret
6	Silicic acid	1-5	1343-98-2

4. First Aid Measures

Inhalation	[:] Wrap a patient with blanket or the like, immediately to settle him/her, and bring him/her to a place under fresh air.
	: In case breathing is getting difficult or has stopped, apply artificial
	respiration and seek medical care, immediately.
Eye Contact	: Wash the contamination out of eyes, even reverse side of eyelids,
	immediately with plenty of running water for more than 15 minutes,
	Seek medical attention as soon as possible.
Skin Contact	[:] Take off immediately all contaminated clothing and shoes, and wash
	contaminated parts of body and skin with water and soap, and then
	with running water.
	: If pain remains or inflammation is caused in skins, get medical
	 Wash the contamination out of eyes, even reverse side of eyelids, immediately with plenty of running water for more than 15 minutes, Seek medical attention as soon as possible. Take off immediately all contaminated clothing and shoes, and wash contaminated parts of body and skin with water and soap, and then with running water.

	attention immediately.
Ingestion	: If swallowed product, should not let patient vomit forcibly, because
	vomited articles may be a cause of such danger that it might block
	patient's tracheae.
	: Should get medical attention, immediately.
	: Rinse mouth.

5. Fire Fighting Measures

Flammable Properties	: Flash point : 100°C
Extinguishing Media	: Powders, bubbles, carbon dioxide, dry sand, mists of a reinforcement
	liquid
Unsuitable Extinguishing	: Water jet
Media	
Fire Fighting Measures	: Transfer a container to a safe place immediately.
	: If unable to move the container, cool it and the surroundings down
	by sprinkling water thereto.
	: Fire should be extinguished with the dedicated extinguishant.
	: Remove immediately all flammable materials surrounding fire.
Specific protective	: For fighting a fire, be sure to wear appropriate protectors. Do not
equipment for	work at the lee side of fire.
firefighters	

6. Accidental Release Measures

Personal Precautions	: Evacuate persons at the lee.
	: Do not allow persons to enter into an area where leakage is
	occurring by means of extending ropes around the leaked place.
	Remove possible sources of ignition presenting nearby, immediately.
	: For fighting a fire, be sure to wear appropriate protectors.
	: Should work from the windward.
	: When the product has leaked into an interior, ventilate well the
	room until the leaked had been cleaned completely.
	: For fighting a fire, wear appropriate protectors such as gloves,
	masks, aprons and goggles.
	[:] Collect leakage into a sealable container, and the container should

	be transferred to a safe place.
	Articles contaminated with product and the wastes must be
	disposed in accordance with the related statutes.
	Collect the liquid being spilled over by means of a tool made of a
	material which does not spark due to impact or friction.
	Do not touch leaked liquid and/or broken container without wearing
E	appropriate protectors.
Environmental	: Do not drain waste wash into a river without treatment.
Precautions	Collecting of spilled-over-product and water used for washing it
	must be done by absorbing them with dry sand, soil, wiping rags or
	any other uninflammable materials.
	[:] When a great amount of product is leaked, block the leakage by
	constructing banks there around with soil.
	: Do not release into the environment.
Methods for cleaning up	: Leaked product should be blocked with sand and soil, and lead the
	stream of the leakage toward a safe place.
	Collect spilt-over product as much as possible into a sealable container.
	Recover spilled portion of product, and wash out the spoiled floor
	with sufficient water using dispersing agent such as neutral
	detergent.

7. Handling and Storage

Precautions for Safe	[:] Keep fire away from the workplace where product is handled.
Handling	Exhaust ventilation system for the workplace should be operated
	properly.
	: Put on appropriate protective wears and implements so as not to
	inhale chemicals and cause contact with eyes, skin and/or clothing.
	: Close container tightly every time after use.
	: Prevent diffusion of volatile as much as possible, so that the
	concentration of volatile in a working environment can be less than
	the concentration to be controlled.
	: Cloth piece used for wiping product should be burn or discarded
	immediately.
	Avoid contact with skins, and do not inhale or swallow product

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accidentally.

	accidentally.
	: Pay attention to fire. Ventilate the operation area thoroughly, and
	handle the product in a place without exposure to direct sunlight nor
	ultraviolet ray.
	: When working suit has been contaminated with product, clean it out
	and replaced with a new working suit. Prevent skins from being
	touched with the contaminated part for a long time.
	: Wash hands and gargle thoroughly after handling.
	: Make sure not to handle product without completing to read and
	understanding the safety precaution.
Technical measures	: Be sure to ground apparatuses, equipments, etc. for securing to
	prevent generation of static electricity.
	: Take measures such as wearing electroconductive working clothes,
	electroconductive working shoes, and so on.
local evacuation, entire	Refer to 8. Exposure Controls / Personal Protection.
evacuation	
Storage	: Containers should be tightly closed, made distinguishable from the
	others, and stored in a dark, cool well-ventilated place.
	: Keep away from heat source, such as boilers, and combustible materials.
	: Never store in the same place where oxidizer and organic peroxides are stored.
	: This product must be stored in a warehouse specially used for
	dangerous chemicals conforming to Fire Service Act.
	: Product must be stored in an original container or drum.
	: Store product under lock and key.
	: In order to prevent from being polymerized with heat or ultraviolet
	rays, charge into a sealable containers and store in a designated
	well-ventilated, dark and cool place.
	· •

8. Exposure Controls / Personal Protection

Component Exposure Limits

Titanium dioxide (13463-67-7)

ACGIH	: 10 mg/m3 TWA
NIOSH	: 5000 mg/m3 IDLH
OSHA	: 15 mg/m3 TWA total dust



Mexico	: 10 mg/m3 TWA VLE-PPT as Ti
	20 mg/m3 STEL [PPT-CT] as Ti

Exposure Controls

Occupational Exposure Controls

Equipment : For indoor operations, make sure to seal up the source of leakage, or install a ventilation system for workplace as a whole. Upon necessity, install on-the-spot ventilation.

Individual Protection Measures, such as Personal Protective Equipment

Respiratory Protection : Wear the respirator against toxic gas.



: Wear the oil resistant protective gloves

Recommendations



Eye /Face

Protection

: Wear coverall, chemical goggles and face shield when handling.



Skin Protection



Appropriate sanitary requirement apron, boots, or whole body suits made from neoprene, as appropriate.

: To prevent any contact, wear impervious clothing such as gloves,

: A cartridge used for a respirator must be renewed either regularly or appropriately corresponding to breakthrough time of use.

Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Product Name: LUS-350 White SDS No. 037-U131077 First issue: 2015/12/09 Revised: 2021/11/18

Appearance	- Physical State	: liquid
	- Color	: white
Odor		: Not available
$_{\rm pH}$: Not available
Boiling Point	/ Boiling Range	: Not available
Melting Point	/ Melting Range	: Not available
Flash Point		: 100°C
Autogenous ig	nition temperature	: Not available
Decomposition	n temperature	: Not available
Upper / Lower	r Flammability or	: Not available
Explosive Lim	nits	
Vapor Pressur	се.	: Not available
Relative Dens	ity	: Not available
Solubility		: insoluble
Viscosity		: Not available
Vapor Density	7	: Not available
VOC		:<1%

10. Stability and Reactivity

Stability	: Physically stable under an ambient temperature or lower.
	: Polymerization may be caused due to heat or ultraviolet rays.
Conditions to Avoid	: If it is heated, the container could explode to be broken down. Do not
	subject the container to static electricity.
	: Keep away from high temperature and heating.
Dangerous substances	[:] This product should not mix with strong oxidants and high-pressure
mixed touch	gases.
	: Contact with heat, light, strong acids, peroxides, oxidizing agents,
	alkalis or radical initiator should be avoided.
Hazardous Reactions /	: Toxic gases such as CO and NOx will be generated during
Decomposition Products	combustion.

11. Toxicological Information

Acute Toxicity

Chemical	Oral	Dermal	inhalation:	inhalation:	inhalation:	
Name			gases	vapours	dusts and mists	



Titanium	Not classified	Not	-	-	Not classified		
dioxide		classified					
Information on Likely Routes of Exposure							
Inhalation : irritation, difficulty breathing, respiratory system damage.							
Skin Contact	irri	tation, allergic	skin reaction.				
Eye Contact	irri	tation.					
Ingestion	: nau	usea, vomiting,	headache, dizzine	ess, drowsiness,	stomach pain.		
Immediate Effect	ts : skii	skin irritation, eye irritation, allergic skin reaction.					
Delayed Effects	: alle	llergic skin reaction, reproductive effects, liver damage, respiratory					
	syste	em damage.					
Irritation/Corros	ivity : skii	n irritation, eye	e irritation.				
Data							
Respiratory	: No	information av	ailable for the pro	duct.			
Sensitization							
Dermal Sensitiza	ation : Ava	ilable data cha	racterizes compor	ents of this pro	duct as dermal		
sensitization hazards.							
Component	: Tita	: Titanium dioxide (13463-67-7)					
Carcinogenicity	AC	ACGIH: A4 - Not Classifiable as a Human Carcinogen					
	IA	IARC: Monograph 93 [2010] ; Monograph 47 [1989] (Group 2B					
	(ра	(possibly carcinogenic to humans))					
	DI	DFG: Category 3A (could be carcinogenic for man ;inhalable fraction					
with the exception of ultra small particles				mall particles)			
	OS	OSHA : Present					
	NI	NIOSH: potential occupational carcinogen					
Germ Cell Mutag	genicity : No	: No information available for the product.					
Tumorigenic Dat	a : No	: No data available					
Reproductive Toxicity : Available data characterizes components of this product as					duct as		
	repro	reproductive hazards.					
Specific Target O	Organ : No target organs identified.						
Toxicity - Single							
Exposure							
	Specific Target Organ : liver, respiratory system						
	Toxicity - Repeated						
Exposure							
Aspiration hazar		: Not expected to be an aspiration hazard.					
Medical Conditio	Medical Conditions : No information available for the product.						

Aggravated by Exposure

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	[:] Hazardous to the Aquatic Environment - Acute Hazard		
	Category 1		
	[:] Hazardous to the Aquatic Environment - Long Term Hazard		
	Category 1		
Persistence and	: No information available		
Degradability			
Bioaccumulative	: No information available		
Potential			
Other Adverse Effects	: No information available		

13. Disposal Considerations

- : Comply with all USA, national and local regulations.
- : When this product is subjected to incineration, it must be done in accordance with the standard for disposing Industrial Waste.
- : Use industrial waste disposal companies who is authorized by local municipal government for the disposal.

Do not dump this product into sewers, on the ground or into any body of water.

14. Transport Information

	Check a thing without a leak in a container.
	Perform prevention of collapse of cargo surely.
US DOT Information	
Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (Photosensitive resin)
Hazard Class	: 9



UN/NA#	: UN3082		
Packing Group	: III		
Required Label(s)	: 9		
International Bulk	: This material contains one or more of the following chemicals		
Chemical Code	required by the IBC Code to be identified as dangerous chemicals in		
	bulk.		
	Titanium dioxide (13463-67-7)		
	IBC Code: Category Z (slurry)		
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 Information

U.S. Federal	: None of this products components are listed under SARA Sections				
Regulations	302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65),				
	CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process				
	safety plan.				
SARA Section 311/312	: Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No				
(40 CFR 370 Subparts B	Reactivity: No				
and C) 2016 reporting					
categories					
SARA Section 311/312	Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation;				
(40 CFR 370 Subparts B	Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation;				
and C) 2017 reporting	Specific Target Organ Toxicity				
categories					
U.S. State Regulations	: The following components appear on one or more of the following				
	state hazardous substances lists:				

state nazaruous substances nsts.						
Componen	CAS	CA	MA	MN	NJ	PA
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes

California Proposition 65

: WARNING

 \wedge

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

Canada Regulations Canadian WHMIS

: The components of this product are either not listed on the IDL or

Ingredient Disclosure are present below the threshold limit listed on the IDL. List (IDL)

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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