

## Safety Data Sheets

### 1. Identification

Product Name	: LUS-350 Black
Order No.	: LUS35-K-BA
Ink Ver.	: 1
General Use	: Ink jet printing ink
Product Description	: UV Inkjet Ink
SDS Number	: 037-U131074
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.	: +1-678-730-0700
Emergency Telephone No.	: +81-268-64-2281

### 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 2  
Sensitization / Skin : Category 1  
Toxic to Reproduction : Category 2  
Specific Target Organ Toxicity : Category 1 (liver, respiratory tract stimulative)  
(Repeated Exposure)

##### Environmental Hazards

Hazardous to the Aquatic : Category 3  
Environment - Acute Hazard

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Hazardous to the Aquatic Environment - Long Term Hazard : Category 3

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

[HCS Label Elements]

Symbol



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)

H412 Harmful 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.

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.

P321 Specific treatment (see 4-Response on our website/SDS URL:

[www.mimaki.co.jp/sds](http://www.mimaki.co.jp/sds)).

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.

[Storage]

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).

HMIS Rating (scale 0 – 4)

Health = 2

Flammability= 1

Reactivity = 1

Protective Equipment =

②	Health
①	Flammability
①	Reactivity
○	Protective Equipment

### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Photosensitive resin	80-90	Trade Secret
2	Photoinitiator	5-15	Trade Secret
3	Carbon black	1-5	1333-86-4
4	Additive	1-5	Trade Secret

### 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 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.

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: 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 Media	: Water jet
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 equipment for firefighters	: For fighting a fire, be sure to wear appropriate protectors. Do not work at the lee side of fire.

### 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.
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Environmental	: Do not touch leaked liquid and/or broken container without wearing appropriate protectors.
Precautions	: Do not drain waste wash into a river without treatment. : 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 unflammable 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 Handling	: Keep fire away from the workplace where product is handled. 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 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
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- 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 evacuation : Refer to 8. Exposure Controls / Personal Protection.
- 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

#### Exposure Limit Values

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Carbon black	TWA:3.5mg/m <sup>3</sup>	TWA:3.5mg/m <sup>3</sup>	TWA:3.5mg/m <sup>3</sup>

#### 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.

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Individual Protection Measures, such as Personal Protective Equipment

Respiratory Protection : Wear the respirator against toxic gas.



**Vapor  
Respirator**

Glove : Wear the oil resistant protective gloves

Recommendations



**Gloves**

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

Protection



**Safety  
Glasses**

Skin Protection : To prevent any contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.



**Protective  
Apron**

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

Environmental Exposure Controls

: Not available

### 9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: black
Odor		: Not available
pH		: Not available
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Flash Point		: 100°C
Autogenous ignition temperature		: Not available

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Decomposition temperature	: Not available
Upper / Lower Flammability or Explosive Limits	: Not available
Vapor Pressure	: Not available
Relative Density	: Not available
Solubility	: insoluble
Viscosity	: Not available
Vapor Density	: 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 mixed touch	: This product should not mix with strong oxidants and high-pressure gases. : Contact with heat, light, strong acids, peroxides, oxidizing agents, alkalis or radical initiator should be avoided.
Hazardous Reactions / Decomposition Products	: Toxic gases such as CO and NOx will be generated during combustion.

### 11. Toxicological Information

#### Acute Toxicity

Chemical Name	Oral	Dermal	inhalation: gases	inhalation: vapours	inhalation: dusts and mists
Carbon black	Not classified	-	-	-	-

Skin corrosion/Skin irritation	: No information available
Serious eye damage/Eye Irritation	: No information available
Respiratory sensitizer	: No information available
Skin sensitizer	: No information available



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Germ cell mutagenicity	: No information available
Carcinogenicity	: No information available
Toxic to reproduction	: No information available
Specific target organ toxicity(single exposure)	: No information available
Specific target organ toxicity(repeated exposure)	: No information available
Aspiration hazard	: No information available

### 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 3 Carbon black : Not classified : Hazardous to the Aquatic Environment - Long Term Hazard Category 3
Persistence and Degradability	: No information available
Bioaccumulative Potential	: No information available
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

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of water.

## 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Class : Not applicable

UN Number : Not applicable

Proper Shipping Name : Not applicable

Seawater pollution : Not applicable

material

MARPOL Annex II : Not applicable

## 15. Regulatory Information

US Federal regulations

TSCA Status : TSCA Section 5 Significant New Use Rule Regulation (SNUR) : Not regulated

: TSCA Section 12(b) Export Notification Requirements : Not regulated

Ingredient	Section 302 EHS TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA Code	CAA 112(r) TQ
None	No	No	No	No	No	No

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200.

EPCRA (Emergency Planning and Community Right-to-Know Act): Section 302: Extremely Hazardous Substances(EHS), Threshold Planning Quantity (TPQ) in 40 CFR 355; EPCRA

Section 304 gives EHS reportable quantities

(RQ); Section 313 Toxic Chemicals, subject to annual reporting (40 CFR 372).

CERCLA (Comprehensive Environmental Response Compensation and Liability Act), Hazardous Substances; accidental release of substances above the Reportable Quantity (RQ) listed requires reporting; local reporting requirements may be in force.

RCRA Hazardous Wastes: RCRA P and U lists (40 CFR 261.33).

CAA Substances for Accidental Release Prevention: Clean Air Act 112 (r), Hazardous Air Pollutants; Threshold Quantities (TQ).

US State regulations

California Proposition : Carbon black (airborne, unbound, particles of respirable size).



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Others : Please refer to any other federal, state and local regulations.

### 16. Other Information

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