

MSDS No.031-35U06YC First issue: 04/10/2009

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Material Safety Data Sheets

1. Product and Company Identification

Product Name : UV ink LH-100 Yellow Product Code : SPC-0597Y / SPC-0659Y

General Use : Inkjet Ink

Product Description : UV Inkjet Ink MSDS Number : 031-35U06YC

Manufacture

Company Name : MIMAKI ENGINEERING Co., Ltd

Address : 2182-3 Otsu, Shigeno, 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. : 1-678-730-0100 Emergency Telephone No. : +81-268-64-2413

2. Hazards Identification

Emergency Overview : Harmful if swallowed.

May be harmful in contact with skin.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause respiratory irritation.

May cause harm to breast-fed children.

Toxic to aquatic life.

Potential Health

Effects

Inhalation : Respiratory Tract Irritation

Signs/symptoms may include cough, sneezing, nasal discharge,

headache, hoarseness, and nose and throat pain.

Eye Contact : Serious Eye Irritation

Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.



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Skin Contact : Skin Irritation

Signs/symptoms may include localized redness, swelling, itching,

dryness, cracking, blistering, and pain.

: Allergic Skin Reaction (non-photo induced)

Signs/symptoms may include redness, swelling, blistering, and itching.

Ingestion : Gastrointestinal Irritation

Signs/symptoms may include abdominal pain, stomach upset, nausea,

vomiting and diarrhea.

Carcinogens : Contains a chemical or chemicals which can cause cancer.

Ingredient: Nickel compaundCAS No.: Trade secretClass Description: Group 2BRegulation: International Agency for Research on Cancer

Medical Conditions

: Contains a chemical or chemicals which can cause harm to breast-fed $\,$

children.

Health

Reactivity

Protective

HMIS Rating (scale 0 – 4)

Health = 2

Flammability= 1

Reactivity = 1

Protective Equipment = G

NFPA Rating (scale 0 – 4)

Health: 2

Flammability: 1

Instability: 2

Special: None



3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Acrylic ester	75-90	Trade Secret	Trade Secret
2	Photo initiator	10-15	Trade Secret	Trade Secret
3	Nickel compound	0.1-5	Trade Secret	Trade Secret
4	Additives	0.1-5	Trade Secret	Trade Secret

4. First Aid Measures

Inhalation : If inhaled, immediately remove to fresh air and keep warm and

calm.

If breathing irregularly or not breathing, give artificial respiration $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}$

and consult a doctor immediately.



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Eye Contact : Immediately flush eyes with large amounts of water for at least 15

minutes.

Remove contact lenses, if present and easy to do.

Get immediate medical attention.

Skin Contact : Remove contaminated clothing and shoes.

Immediately flush skin with large amounts of water.

Get medical attention.

The product don't evaporate therefore staying on the skin or clothing for a long time. If no washing or no taking off the clothing, it may

cause inflammation on the skin.

Wash contaminated clothing and clean shoes before reuse.

Ingestion : Do not induce vomiting.

If swallowed, keep calm and consult a doctor immediately.

Keep from swallowing vomit.

Concise statement on the

: No relevant information found.

most important symptom

Protection to : Wear tools for appropriate protection.

first-aiders Ventilate.

See section 7 and 8.

Note to physician : See section 7 and 8.

5. Fire Fighting Measures

Flammable Properties Autoignition temperature : Not available

Flash Point : 136 degree C
Flammable Limits – LEL : Not available
Flammable Limits – UEL : Not available

Extinguishing Media : Foam, carbon dioxide, dry chemical, water spray.

Never splash water.

Protection of Fire Fighters

Special Fire Fighting : Wear tools for appropriate protection.

Procedures Eliminate ignition sources.

Stay upwind.

Keep people away.

Keep wetted with water surrounding equipment.

Avoid discharge chemical substances to rivers and sewers.



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6. Accidental Release Measures

Personal : Wear tools for appropriate protection.

precautions Keep unnecessary and unprotected personnel from entering in vicinity of

spill.

Ventilate.

See section 8.

Environmental : Avoid discharge to rivers and environmental effects.

precautions

Steps to be taken : Small spills:

If material is spilled Absorb with nonflammable absorbent such as dry sand and dirt.

Large spills:

Pump spills into a sealing container and remove to safe place.

Use non-sparking equipment during recovery operation and ground

equipment.

See section 13, Disposal Considerations, for disposing of waste.

Second-accident

: Prepare proper fire extinguishers and eliminate all sources of ignition in

precautions

vicinity of spill.

Avoid walking on the spills.

Use safety tools to prevent sparks.

7. Handling And Storage

Handling : Handle in well-ventilated area.

Prohibit use of fire, sparks and heat source.

Use antistatic clothing and shoes.

Ground equipment against electrostatics and use spark-proof tools.

Keep from increasing of temperature for flammable substance.

Use local exhaust system and proper protection if working in closed area.

Use proper protection (gloves, masks, aprons, goggles, etc.)

Storage : Keep container tightly closed, store at cool and aired place, open and handle

carefully.

Protect from light.

Protect from heat/overheating.

Avoid contact with peroxides or other free radical initiators.



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8. Exposure Controls / Personal Protection

8.1. Exposure limit values

Not applicable

8.2. Exposure controls

Engineering controls : Use explosion-proof equipment if handle in volume.

Use exhaust system to prevent vapor build-up. Keep heat or fire sources from handling area.

If working indoors, use proper equipment to protect workers from direct exposure or use local exhaust system to protect workers from exposure.

Respiratory protection : Wear protective masks for hazardous materials.



Eye protection : Wear chemical goggles.



Hand protection : Wear gloves resistant to organic solvents and chemicals.



Skin protection

: Wear clothing to protect skin from direct exposure.



Wear protective clothing resistant to chemicals.

9. Physical And Chemical Properties

Appearance - Physical state : Liquid

- Color : Yellow

Odor : Acrylate odor
pH : Not available
Boiling Point / Boiling Range : Not available
Melting Point / Melting Range : Not available
Flash Point : 136 degree C



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Autoignition Temperature : Not available
Flammable Limits : Not available
Vapor Pressure : Not available
Specific Gravity : 1.09(25 degree C)
Water Solubility : Not available

Viscosity : 22±3mPa·s (25 degree C)

Vapor Density : Not available

10. Stability And Reactivity

Stability : Stable under the usual handling condition.

Condition to avoid : Excessive heat and cold, sparks, ignition sources, light and high

humidity.

May result in polymerization.

Materials to avoid : Oxidant, explosive substances, catalysts, alkaline, free radical initiators.

Hazardous : To burn this product may be produce toxic gases such as CO and

decomposition low-molecular-weight monomers.

products

Other : Plastic and rubbers might be melted.

11. Toxicologocal Information

Acute Toxicity -Oral : Rats LD50 1999mg/kg

-Dermal : Rabbit LD50 2641mg/kg

Carcinogenicity : Nickel compaund IARC category 2B

(Not possible to classify as a printing ink)

Others : Not available

12. Ecological Information

General notes : 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.

Ecological toxicity : Not available Persistence and : Not available



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degradability

Bioaccumulative potential : Not available
Mobility : Not available

13. Disposal Considerations

- Have waste inks, containers and other materials disposed by licensed industrial waste disposer.
- · Do not dump drainage flushed containers and equipment into sewers, on the ground.
- · Dispose of wastes from drainage or incineration, in compliance with the laws and regulations.
- · Adsorb to diatom earth and others to dispose waste inks, and use open incinerator.
- Dispose of wastes by licensed industrial waste disposer to comply with the local laws and regulations.
- · Empty inks and other materials out of containers if disposed.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

UN, IMO, ICAO: Not regulated

15. Regulatory Information

TSCA Status : All components on TSCA INVENTORY.

SARA Title

Section 311/312 : Fire Hazard: No

(40 CFR 370) Pressure Hazard: No

Reactivity Hazard: No Immediate Hazard: Yes Delayed Hazard: Yes

California Proposition 65 : This product contains, or may contain, trace quantities of a

substance(s) known to the state of California to cause cancer and/or

reproductive toxicity.



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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.

Revision history

Version	Date	Content
1.0	04/10/2009	First issue
2.0	01/22/2010	No.1 Addition of SPC-0659Y