

Safety Data Sheets

1. Identification

Product Name : UVink LF-140 Brilliant Yellow
Order No. :SPC-0728BY
Ink Ver. : 1
General Use : Ink for ink jet printer
Product Description : UV curable ink
SDS Number : 037-U070265
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. : +1-678-730-0100
Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Acute Toxicity – Oral : Not classified

Acute Toxicity – Dermal : Not classified

Skin Corrosion / Irritation : Category2

Eye Damage / Irritation : Category2A

Sensitization – Respiratory : Not classified

Sensitization – Skin : Category1

Germ Cell Mutagenicity : Not classified

Carcinogenicity : Not classified

Toxic to Reproduction : Category2

Environmental Hazards

Hazardous to the Aquatic : Category1

Environment - Acute Hazard

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

[GHS Label Elements]

Symbol



Signal Word

Warning

Hazard Statements

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
H400	Very toxic to aquatic life

Precautionary Statements

[Prevention]

P201	Obtain SDS (Safety Data Sheet) and printer's manual instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands and eyes thoroughly after handling.
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]

P321	Specific treatment (see 4-Response on our website/SDS URL: www.mimaki.co.jp/msds).
P391	Collect spillage.
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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
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.

[Disposal]

P501	Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).
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HMIS Rating (scale 0 – 4)

Health = 2

Flammability = 1

Reactivity = 1

Protective Equipment = G

2	Health
1	Flammability
1	Reactivity
G	Protective Equipment

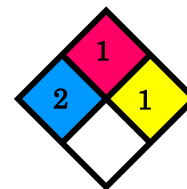
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 1

Special = None



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Acrylic ester	75-95	Registered	Trade secret
2	Photo initiator	10-15	Registered	Trade secret
3	Disazo yellow	0.1-5	Registered	Trade secret
4	Additives	0.1-5	Registered	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 and consult a doctor immediately.
Eye Contact	: Flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Consult an ophthalmologist immediately.
Skin Contact	: Wash skin thoroughly with plenty of water. If on clothing, remove immediately contaminated clothing. 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.
Ingestion	: Do not induce vomiting. If swallowed, keep calm and consult a doctor immediately. Keep from swallowing vomit.
Concise statement on the most important symptom	: No relevant information found.

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Protection To First-Aiders : Wear tools for appropriate protection.

Ventilate.

See section 7 and 8.

Note To Physician : See section 7 and 8.

5. Fire Fighting Measures

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

Never splash water.

Hazard in fire : Avoid breathing combustion products.

Fire Fighting : Eliminate ignition sources.

Instructions : Stay upwind.

Keep people away.

Keep wetted with water surrounding equipment.

Avoid discharge chemical substances to rivers and sewers.

Protection to firefighters : Wear tools for appropriate protection.

6. Accidental Release Measures

Personal Precautions : Wear tools for appropriate protection.

Keep unnecessary and unprotected personnel from entering in vicinity of spill.

Ventilate.

See section 8.

Environmental precautions : Avoid discharge to rivers and environmental effects.

Steps to be taken if material is spilled : Small spills:

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 precautions : Prepare proper fire extinguishers and eliminate all sources of ignition in vicinity of spill.

Avoid walking on the spills.

Use safety tools to prevent sparks.

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7. Handling and Storage

Handling	<p>: Handle in well-ventilated area.</p> <p>Prohibit use of fire, sparks and heat source.</p> <p>Use antistatic clothing and shoes.</p> <p>Ground equipment against electrostatics and use spark-proof tools.</p> <p>Keep from increasing of temperature for flammable substance.</p> <p>Use local exhaust system and proper protection if working in closed area.</p> <p>Use proper protection (gloves, masks, aprons, goggles, etc.)</p>
Storage	<p>: Keep container tightly closed, store at cool and aired place, open and handle carefully.</p> <p>Protect from light.</p> <p>Protect from heat/overheating.</p> <p>Avoid contact with peroxides or other free radical initiators.</p>

8. Exposure Controls / Personal Protection

Exposure Limit Values	: Not applicable
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Exposure Controls

Occupational Exposure Controls

Engineering Controls	<p>: Use explosion-proof equipment if handle in volume.</p> <p>Use exhaust system to prevent vapor build-up.</p> <p>Keep heat or fire sources from handling area.</p> <p>If working indoors, use proper equipment to protect workers from direct exposure or use local exhaust system to protect workers from exposure.</p>
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Personal Protection

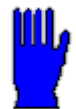
Respiratory	: Wear protective masks for hazardous materials.
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Protection



Hand Protection	: Wear gloves resistant to organic solvents and chemicals.
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**Gloves**

Eye Protection : Wear chemical goggles.

**Safety Glasses**

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(25°C)
	- Color	: Yellow
Odor		: Characteristic odor
pH		: Not available
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Decomposition Temperature		: Not available
Flash Point		: >93°C
Auto ignition temperature		: Not available
Flammability (Solid, Gas)		: Not available
Explosive Properties		: Not available
Oxidizing Properties		: Not available
Upper / Lower Flammability or Explosive Limits		: Not available
Vapor Pressure		
Relative Density		: 1.07(25°C)
Solubility		: Not available
Water Solubility		: Not available
Partition Coefficient (n-octanol / Water)		: Not available
Viscosity		: 23±3 mPa·s (25°C)
Vapor Density		: Not available
Evaporation Rate		: Not available
VOC		: Not available
Solvent content		: Organic solvents ≤0.5Wt%

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Water amount : Not available

10. Stability and Reactivity

Conditions to Avoid : Excessive heat and cold, sparks, ignition sources, light and high humidity.
May result in polymerization.

Stability : Stable under the usual handling condition.

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

Hazardous Reactions / Decomposition Products : To burn this product may be produce toxic gases such as CO and low-molecular-weight monomers.

Other : Plastic and rubbers might be melted.

11. Toxicological Information

Acute Toxicity Oral: Rats LD50 >2,000mg/kg: Category 5
Dermal: Rabbit LD50 >2,000mg/kg: Category 5

Others : Not 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 L(E)C50 <1.00mg/L: Category 1

Mobility : Not available

Persistence and Degradability : Not available

Bioaccumulative Potential : Not available

13. Disposal Considerations

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- 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.

LAND TRANSPORT

ADR, RID	Class	: 9 Miscellaneous dangerous substances and articles
	Packing Group (PG)	: III
	Classification code	: M6
	Hazard Identification No.	: 90
	UN Number	: 3082
	Hazard label	: 9
	Name and description	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	Transport category	: 3
	(Tunnel restriction code)	(E)

SEA TRANSPORT

IMDG	Class	: 9
	Packing Group (PG)	: III
	UN Number	: 3082
	Hazard label	: 9
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

AIR TRANSPORT

ICAO/IATA	Class	: 9
	Packing Group (PG)	: III
	Passenger and Cargo Limited	: Y964
	Quantity Packing Instructions	



Product Name: UVink LF-140 Brilliant Yellow

SDS No. 037-U070265

First issue: 2014/03/14

Revised:

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Packing Instructions (Passenger)	: 964
Packing Instructions (Cargo)	: 964
UN Number	: 3082
Hazard label	: 9
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s.

15. Regulatory Information

TSCA Status : All components on TSCA INVENTORY.

SARA Title III

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.

16. Other Information

References International Chemical Safety Cards (ICSC)

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