

1. Identification

Product Name	: UV ink LF-140 Brilliant Yellow	
Order No.	: SPC-0728BY	
General Use	: Ink for ink jet printer	
Product Description	: UV Inkjet Ink	
SDS Number	: 037-U060432	
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, Toll free)	
	$+1\ 215\ 207\ 0061$	

2. Hazards Identification

[GHS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Acute Toxicity – Oral	: Category 4 (64% unknown)
Skin Corrosion / Irritation	Category 1
Eye Damage / Irritation	Category 1
Sensitization - Skin	Category 1
Toxic to Reproduction	Category 1B
Specific Target Organ Toxicity	Category 1 (central nervous system, blood,
(Repeated Exposure)	respiratory system, thyroid gland, and lungs)
	Category 2 (nose)



Environmental Hazards	
Hazardous to the Aquatic	: Category 2
Environment - Acute Hazard	
Hazardous to the Aquatic	Category 2
Environment - Long Term Hazard	

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

[GHS Label Elements] Symbol



Signal Word Danger

Hazard Statements H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H318 Cause serious eye damage

H360 May damage fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

(central nervous system, blood, respiratory system, thyroid gland, and lungs) H373 May cause damage to organs through prolonged or repeated exposure (nose) 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 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.

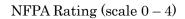
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water[or shower].
- 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.
P310 Immediately call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
[Storage]
P405 Store locked up.
[Disposal]
P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).



Health = 3 Flammability = 1 Instability = 0 Special = None

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Acryl acid ester	60-70	Trade Secret
2	2-Ethylhexyl acrylate	1-10	103-11-7
3	1,6-Hexanediol diacrylate	10-20	13048-33-4
4	Initiator	10-15	Trade Secret
5	Disazoyellow	1-5	Trade Secret
6	Additive	0.1-5	Trade Secret

4. First Aid Measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
Eye Contact	: Flush eyes with plenty of water for at least 15 minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	Get immediate medical attention.
Skin Contact	: Wash with plenty of soap and water. Take off contaminated clothing
	and wash before re-use. If skin irritation or rash occurs: Get medical
	advice/attention. Contaminated clothing should be removed and
	laundered before reuse.



Ingestion	: If swallowed, get medical attention.	
Most Important Symptoms/Effects		
Acute	: severe skin burns and eye damage, allergic skin reaction	
Delayed	allergic skin reaction, reproductive effects,central nervous system	
	damage, blood damage, respiratory system damage, thyroid effects	
Indication of Immediate	: Treat symptomatically and supportively.	
Medical Attention and		
Special Treatment		
Needed, If Needed		

5. Fire Fighting Measures

Flammable Properties	: Flash point >93°C
Extinguishing Media	: carbon dioxide, regular dry chemical, water spray, alcohol resistant foam
Unsuitable Extinguishing	: Do not scatter spilled material with high-pressure water streams.
Media	
Special Hazards Arising	: Negligible fire hazard.
from the Chemical	
Hazardous Combustion	: oxides of carbon, oxides of nitrogen, oxides of sulfur
Products	
Fire Fighting	: Move container from fire area if it can be done without risk. Do not
Measures	scatter spilled material with high-pressure water streams. Cool
	containers with water spray until well after the fire is out. Stay
	away from the ends of tanks. Avoid inhalation of material or
	combustion by-products.
Special Protective	: Wear full protective fire fighting gear including self contained
Equipment and	breathing apparatus (SCBA) for protection against possible
Precautions for	exposure.
Firefighters	

6. Accidental Release Measures

Personal Precautions,	: Wear personal protective clothing and equipment, see Section 8.
Protective Equipment	Avoid release to the environment.
and Emergency	

MIMCIKI[®] Safety Data Sheets

Procedures	
Methods and Materials	: Eliminate all ignition sources if safe to do so. Stop leak if possible
for Containment and	without personal risk. Reduce vapors with water spray.
Cleaning Up	Small spills: Absorb with sand or other non-combustible material.
	Collect spilled material in appropriate container for disposal.
	Large spills: Dike for later disposal. Keep unnecessary people away,
	isolate hazard area and deny entry. Stay upwind and keep out of low
	areas.

7. Handling and Storage

Precautions for Safe	: Do not breathe vapor or mist. Avoid contact with eyes, skin and
Handling	clothing. Do not eat, drink, or smoke when using this product. Wear
	protective gloves and eye/face protection. Wash thoroughly after
	handling. Contaminated work clothing should not be allowed out of
	the workplace. Avoid release to the environment.
Conditions for Safe	Store and handle in accordance with all current regulations and
Storage, including any	standards. Store in a well-ventilated place. Keep container tightly
Incompatibilities	closed. Keep cool. Store locked up. Keep separated from incompatible
	substances.

8. Exposure Controls / Personal Protection

Exposure Limit Values	: ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.
Component Biological	: There are no biological limit values for the component(s) of this
Limit Values	product.
Exposure Controls	
Occupational Exposure	Controls
Appropriate	: Ventilation equipment should be explosion-resistant if explosive
Engineering Controls	concentrations of material are present. Provide local exhaust or
	process enclosure ventilation system. Ensure compliance with
	applicable exposure limits.
Personal Protection	
Respiratory	Consult with a health and safety professional for specific respirators



Protection



rotective Apron

appropriate for your use.

: Wear appropriate chemical resistant gloves.

: Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

: Wear appropriate chemical resistant clothing.

9. Physical and Chemical Properties

Appearance - Physical State	: Liquid	
- 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℃	
Auto ignition temperature	: Not available	
Flammability (Solid, Gas)	: Not available	
Explosive Properties	: Not available	
Oxidizing Properties	: Not available	
Upper / Lower Flammability or	: Not available	
Explosive Limits		
Vapor Pressure		
Specific Gravity	: 1.07 (25°C)	
Solubility	: Not available	

Mimciki Safety Data Sheets

Water Solubility	: Not available
Partition Coefficient (n-octanol / Water)	: Not available
Viscosity	$:23\pm3$ mPa \cdot s (25°C)
Vapor Density	: Not available
Evaporation Rate	: Not available
VOC	: Not available

10. Stability and Reactivity

Reactivity	: No reactivity hazard is expected.
Chemical Stability	: Stable under normal conditions of use.
Possibility of Hazardous	: Will not polymerize.
Reactions	
Conditions to Avoid	Avoid flames, sparks, and other sources of ignition. Containers may
	rupture or explode if exposed to heat. Avoid contact with incompatible
	materials.
Incompatible Materials	: acids, bases, oxidizing materials, peroxides,
Hazardous	: Combustion: oxides of carbon, oxides of nitrogen, oxides of sulfur
Decomposition	

11. Toxicological Information

Acute Toxicity	: The component(s) of this material have been reviewed in various
Component Analysis -	sources and no selected endpoints have been identified.
LD50/LC50	
Information on Likely Ro	utes of Exposure
Inhalation	: irritation, nausea, headache, drowsiness, dizziness, loss of
	coordination, difficulty breathing, blood damage, respiratory system
	damage, thyroid effects
Ingestion	: irritation, nausea, headache, drowsiness, dizziness, loss of
	coordination, unconsciousness, blood damage, thyroid effects
Skin Contact	\vdots severe skin burns, allergic reactions, nausea, headache, drowsiness,
	dizziness
Eye Contact	: eye damage
Immediate Effects	allergic skin reaction, severe skin burns and eye damage
Delayed Effects	: allergic skin reaction, reproductive effects, central nervous system



	damage, blood damage, respiratory system damage, thyroid effects
Medical Conditions	: No information available for the product.
Aggravated by Exposure	
Irritation/Corrosivity	: severe skin burns and eye damage
Data	
Respiratory	: No information available for the product.
Sensitization	
Dermal Sensitization	Available data characterizes components of this product as dermal
	sensitization hazards.
Germ Cell Mutagenicity	: No information available for the product.
Carcinogenicity	: No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for
	the component(s) of this product.
Reproductive Toxicity	Available data characterizes components of this product as
	reproductive hazards.
Specific Target Organ	: No target organs identified.
Toxicity - Single	
Exposure	
Specific Target Organ	\div central nervous system, blood, respiratory system, thyroid, nose
Toxicity - Repeated	
Exposure	
Aspiration Hazard	: Not expected to be an aspiration hazard.

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.
Component Analysis -	: Acute hazard
Aquatic Toxicity	Category 1:13048-33-4 (source: NITE)
	Category 2: Trade Secret (source: NITE)
	(M factor x 10 x Category 1) + Category 2 >= Concentration limit
	(25%). Classification result = Category 2.
	Long-term hazard
	Category 1:13048-33-4 (source: NITE)



Category 2: Trade Secret (source: 1272/2008/EC) (M factor x 10 x Category 1) + Category 2 >= Concentration lim (25%). Classification result = Category 2.				
Persistence and	: Not available			
Degradability				
Bioaccumulation	: Not available			
Mobility	: Not available			
Other Toxicity	: Not available			

13. Disposal Considerations

	: Comply with all USA, national and local regulations.				
	Do not dump this product into sewers, on the ground or into any body				
	of water.				
Disposal Methods	[:] Dispose in accordance with all applicable regulations.				
Component Waste	[:] The U.S. EPA has not published waste numbers for this product's				
Numbers	components.				
Disposal of	: Empty containers may contain product residue. Dispose in				
Contaminated	accordance with all applicable regulations.				
Packaging					

14. Transport Information

	Check a thing without a leak in a container.
	Perform prevention of collapse of cargo surely.
DOT Information	
UN Number	: UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Acryl acid ester)
Hazardous Class or Division	: 8
Packing Group (PG)	: III
IMDG Information	
UN Number	: UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Acryl acid ester)
Hazardous Class or Division	: 8
Packing Group (PG)	: III
Marine Pollutant	: YES (Product)



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IATA Information	
UN Number	: UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Acryl acid ester
Hazardous Class or Division	: 8
Packing Group (PG)	: III

15. Regulatory Information

CERCLA/SARA - Section 313	: CERCLA/SARA - Section 313 - Emission Reporting				
U.S RTK (Right To Know) List	: New Jersey - RTK (Right to Know) - Hazardous Substance List Pennsylvania - RTK (Right to Know) List				
	Massachusetts - RTK (Right To Know) List				
California Proposition 65	: WARNING This product can expose you to chemicals including Toluene, Methyl Acrylate, and 2-Ethylhexyl acrylate which are known to the State of California to cause cancer/ birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.				
Chemical Inventory	: Component Analysis - Inventory				
Listings					

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
1,6-Hexanediol diacrylate (CAS No. 13048-33-4)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Disazoyellow	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

16. Other Information

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code -International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LEL - Lower



Explosive Limit; LOLI - List Of LIsts[™] - ChemADVISOR's Regulatory Database; MAK -Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

Other Information

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