

**Safety Data Sheets** 

Product Name: LF-140C SDS No. 037-U071118 First issue: 2015/12/22 Revised: 2022/07/19

## \* \* \*Section 1 - IDENTIFICATION\* \* \*

## Product Identifier: LF-140C

**Product Description** 

SPC-0727C / SPC-0728C / LF140-C-BA

#### **Product Use**

UV cure ink for ink jet printer

Restrictions on Use None known.

#### **Manufacturer Information**

Mimaki Engineering Co., Ltd 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 Japan Importer / Distributor Information MIMAKI SINGAPORE PTE. LTD. 31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03 Telephone number: +81-268-64-2413

Telephone number: +65-6508-2789

#### **Emergency telephone number**

+65 3165 2217 (within Singapore only) +65 3158 1074

#### \* \* \*Section 2 - HAZARDS IDENTIFICATION\* \* \*

#### SPRING/SS 586-2:2014

Acute Toxicity (Oral), Category 4 (~50% unknown) Skin Corrosion / Irritation, Category 1 Serious Eye Damage/Eye Irritation, Category 1 Skin sensitizer, Category 1 Reproductive toxicity, Category 1B Specific Target Organ Toxicity - Repeated Exposure, Category 1 (central nervous system, blood, respiratory system, and thyroid gland) Specific Target Organ Toxicity - Repeated Exposure, Category 2 (nose) Hazardous to the aquatic environment - acute hazard, Category 2 Hazardous to the aquatic environment - chronic hazard, Category 2 LABEL ELEMENTS

## Symbol(s)



Signal Word DANGER Hazard Statement(s) H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

H318 Cause serious eye damage.

**H317** May cause an allergic skin reaction.

**H372** Causes damage to central nervous system, blood, respiratory system, and thyroid through prolonged or repeated exposure.

H360 May damage fertility or the unborn child

H373 May cause damage to nose through prolonged or repeated exposure.

**H411** Toxic to aquatic life with long lasting effects.

#### Precautionary Statement(s)

#### Prevention

**P201** Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

**P260** Do not breathe dust/fume/gas/mist/vapours/spray.

**P270** Do not eat, drink or smoke when using this product.

**P264** Wash 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

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor.

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 it before reuse.

P391 Collect spillage.

#### Storage

P405 Store locked up.

#### Disposal

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other Hazards Which Do Not Result in Classification

None known.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS*	: * *
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CAS	Component	Percent				
Proprietary	Acryl acid ester	65-75				
13048-33-4	1,6-Hexanediol diacrylate	10-20				
Proprietary	Initiator	10-15				
Proprietary	Phthalocyanine series pigment	1-5				



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Proprietary

Additive

0.1-5

## \* \* \*Section 4 - FIRST AID MEASURES\* \* \*

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

## Skin

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.

#### Eyes

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.

#### Ingestion

If swallowed, get medical attention.

#### Note to Physicians

Treat symptomatically and supportively.

#### Symptoms: Immediate

Severe skin burns and eye damage, allergic skin reaction

#### Symptoms: Delayed

allergic skin reaction, central nervous system damage, blood damage, respiratory system damage, thyroid effects, reproductive effects

## \* \* \*Section 5 - FIRE FIGHTING MEASURES\* \* \*

**Flammable Properties** 

Negligible fire hazard.

#### **Extinguishing Media**

carbon dioxide, regular dry chemical, water spray, alcohol resistant foam

#### **Unsuitable Extinguishing Media**

Do not scatter spilled material with high-pressure water streams.

#### **Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

#### **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Do not 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.

#### **Hazardous Combustion Products**

**Combustion:** oxides of carbon, oxides of nitrogen, oxides of sulfur

## \* \* \*Section 6 - ACCIDENTAL RELEASE MEASURES\* \* \*

#### **Personal Precautions**

Wear personal protective clothing and equipment, see Section 8.

#### **Environmental Precautions**

Avoid release to the environment. Collect spillage.

#### **Methods for Containment**

Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray.

#### **Cleanup Methods**



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**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.

## \* \* \*Section 7 - HANDLING AND STORAGE\* \* \*

#### **Precautions for Safe Handling**

Do not breathe vapor or mist. Avoid contact with eyes, skin and 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 Storage

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep separated from incompatible substances.

Incompatibilities: acids, bases, oxidizing materials, peroxides

## \* \* \*Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\* \* \*

#### **Component Exposure Limits**

Singapore and ACGIH have not developed exposure limits for any of this product's components.

#### **Biological exposure limits**

There are no biological limit values for any of this product's components.

#### **Engineering Controls**

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

#### Eyes/Face

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

#### **Protective Clothing**

Wear appropriate chemical resistant clothing.

#### **Glove Recommendations**

Wear appropriate chemical resistant gloves.

#### **Respiratory Protection**

Consult with a health and safety professional for specific respirators appropriate for your use.

### \* \* \*Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\* \* \*

Physical State:	Liquid	Appearance:	cyan liquid
Color:	cyan	Physical Form:	liquid
Odor:	unique odor	Odor Threshold:	Not available
pH:	Not available	Melting Point:	Not available
Boiling Point:	Not available	Flash Point:	>93 °C
Decomposition	Not available	Evaporation Rate:	Not available
Temperature:			
LEL:	Not available	UEL:	Not available
Vapor Pressure:	Not available	Vapor Density (air = 1):	Not available
Density:	Not available	Specific Gravity (water =	1.07 (25 °C)
-		1):	
Water Solubility:	Not available	Log KOW:	Not available



Coeff. Water/Oil Dist:	Not available	Auto Ignition	Not available
		Temperature:	
Viscosity:	23±3 mPa/s (25°C)	Volatility:	Not available
Oxidizing Properties:	Not available	Explosive Properties:	Not available
Flammability (solid, gas):	Not applicable		

#### **Other Property Information**

No additional information is available.

\* \* \*Section 10 - STABILITY AND REACTIVITY\* \* \*

#### Reactivity

No reactivity hazard is expected.

#### Chemical Stability

Stable under normal conditions of use.

#### **Possibility of Hazardous Reactions**

Will not polymerize.

#### **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.

#### Materials to Avoid (Incompatibilities)

acids, bases, oxidizing materials, peroxides

#### Hazardous Decomposition:

Combustion: oxides of carbon, oxides of nitrogen, oxides of sulfur

#### \* \* \*Section 11 - TOXICOLOGICAL INFORMATION\* \* \*

#### Acute and Chronic Toxicity

#### **Component Analysis - LD50/LC50**

The component(s) of this material have been reviewed in various sources and the following selected endpoints are published:

#### 1,6-Hexanediol diacrylate (13048-33-4)

Oral LD50 Rat 5 g/kg

#### **Immediate Effects**

allergic skin reaction, severe skin burns and eye damage

#### **Delayed Effects**

allergic skin reaction, central nervous system damage, blood damage, respiratory system damage, thyroid effects, reproductive effects

#### Irritation/Corrosivity Data

Severe skin burns and eye damage

#### **Respiratory Sensitizer**

No information available for the product.

#### Dermal Sensitizer

Available data characterizes components of this product as dermal sensitization hazards.

#### Carcinogenicity

#### **Component Carcinogenicity**

No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for the component(s) of this product.

#### Mutagenic Data

No information available for the product.



#### **Reproductive Effects Data**

Available data characterizes components of this product as reproductive hazards.

#### Specific Target Organ Toxicity - Single Exposure

No target organs identified.

#### Specific Target Organ Toxicity - Repeated Exposure

central nervous system, blood, respiratory system, thyroid, nose

#### **Aspiration Hazard**

Not expected to be an aspiration hazard.

#### Medical Conditions Aggravated by Exposure

No information available for the product.

## \* \* \*Section 12 - ECOLOGICAL INFORMATION\* \* \*

#### Ecotoxicity

Toxic to aquatic life with long lasting effects.

#### **Component Analysis - Aquatic Toxicity**

#### **Acute Toxicity**

Category 1:13048-33-4 (source: NITE)

Category 2: Proprietary (source: NITE)

(M factor x 10 x Category 1) + Category 2 >= Concentration limit(25%). Classification result = Category 2.

## Chronic Toxicity

Category 1:13048-33-4 (source: NITE)

Category 2: Proprietary (source: 1272/2008/EC)

(M factor x 10 x Category 1) + Category 2 >= Concentration limit(25%). Classification result = Category 2.

#### Bioaccumulation

No information available for the product.

#### Bioconcentration

No information available for the product.

#### Biodegradation

No information available for the product.

#### Persistence

No information available for the product.

#### Mobility

No information available for the product.

#### **Other Information**

No additional information is available.

## \* \* \*Section 13 - DISPOSAL CONSIDERATIONS\* \* \*

#### Disposal Methods

Dispose in accordance with all applicable regulations.

#### **Component Waste Information**

There is no applicable waste information for this product's components.

## \* \* \*Section 14 - TRANSPORT INFORMATION\* \* \*

#### IMDG Information

UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S. UN number: UN1760 Transport hazard class(es): 8 Packing Group: III



#### IATA Information

UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S. UN number: UN1760 Transport hazard class(es): 8 Packing Group: III

## \* \* \*Section 15 - REGULATORY INFORMATION\* \* \*

#### **Singapore Regulations**

#### **Component Analysis**

No information was found for the substance(s) in Singapore regulations.

#### Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
1,6-Hexanediol diacrylate	13048-33-4	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Phthalocyanine series	Proprietary	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
pigment										

## \* \* \*Section 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; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; 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

#### Disclaimer

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.

End of Sheet 037-U071118