

SDS No. 037-U054863 First issue: 2019/07/09

Revised:

Safety Data Sheets

1. Identification

Product Name : UV ink LF-200 Magenta

Order No. : SPC-0591M

General Use : Ink for ink jet printer

Product Description : UV Inkjet Ink SDS Number : 037-U054863

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

Company Name : MIMAKI AUSTRALIA PTY LTD.

Address : Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia

Telephone No. : +61-2-8036-4500

Emergency Telephone No. : +61 2 8014 4558 (within Australia only)

18000 74234 (within Australia only)

+65 3158 1074

2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 1

Sensitization – Skin : Category 1

Toxic to Reproduction : Category 1B

Environmental Hazards

Hazardous to the Aquatic : Category 1

Environment - Acute Hazard

Hazardous to the Aquatic : Category 1

Environment - Long Term Hazard

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



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[GHS Label Elements] Symbol



Signal Word

Danger

Hazard Statements

H315 Cause skin irritation

H317 May cause an allergic skin reaction

H318 Cause serious eye damage

H360 May damage fertility or the unborn child

H410 Very 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.

P261 Avoid breathing gas/mist.

P264 Wash hands 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]

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.

(P305)+P310 (IF IN EYES):Immediately call a POISON CENTER or doctor/physician.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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).

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	ISOBORNYL ACRYLATE	40 - 50	5888-33-5
2	TETRAHYDROFURFURYL ACRYLATE	10 - 20	2399-48-6
3	2,4,6-Trimethylbenzoyldiphenylphosphine oxide	5 - 15	75980-60-8



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4	AMINE MODIFIED ACRYLATE OLIGOMER	5 - 15	Trade Secret
5	DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	5 - 15	7328-17-8
6	9H-Thioxanthen-9-one, 2,4-diethyl-	1 - 10	82799-44-8
7	2,9-DICHLOROQUINACRIDONE	1 - 10	Trade Secret
8	POLYMERIC AMIDE 510390490-8248P	1 - 10	Trade Secret
9	SUBSTITUTED TRIAZINE	< 10	Trade Secret
10	1,6-HEXANEDIOL DIACRYLATE	< 1	13048-33-4
11	CAMPHENE	< 0.5	79-92-5
12	Acrylic Acid	< 0.1	79-10-7
13	Toluene	< 0.1	108-88-3
14	TETRAHYDROFURFURYL ALCOHOL	< 0.5	97-99-4

4. First Aid Measures

Inhalation : Remove person to fresh air. If you feel unwell, get medical attention.

Eye Contact : Immediately flush with large amounts of water. Remove contact

lenses if easy to do. Continue rinsing. Get medical attention.

Skin Contact : Immediately wash with soap and water. Remove contaminated

clothing and wash before reuse. If signs/symptoms develop, get

medical attention.

Ingestion : Rinse mouth. If you feel unwell, get medical attention.

Most Important : See Section 11 Information on toxicological effects.

Symptoms/Effects

Indication of Immediate : Not applicable.

Medical Attention and

Special Treatment

Needed, If Needed

5. Fire Fighting Measures

Flammable Properties : Flash point >200° F

Extinguishing Media : Use a fire fighting agent suitable for ordinary combustible material

such as water or foam to extinguish.

Special Hazards Arising : Closed containers exposed to heat from fire may build pressure and



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from the Chemical

explode.

Hazardous Combustion

: Carbon monoxide, Carbon dioxide (During Combustion)

Products

Special protective actions

for fire-fighters

: Water may not effectively extinguish fire; however, it should be used

to keep fire-exposed containers and surfaces cool and prevent

explosive rupture.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Environmental precautions

Methods and material for containment and cleaning up

: Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water : Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

7. Handling and Storage

Precautions for Safe Handling : Avoid skin contact with hot material. For industrial or professional use only. Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and



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understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Conditions for Safe Storage, including any Incompatibilities : Keep cool. Protect from sunlight. Store away from heat. Store away from oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limit Values

: If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS No.	Agency	Limit type	Additional
				Comments
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as
				human carcin
		OSHA	TWA:200 ppm;CEIL:300	
			ppm	
1,6-HEXANEDIOL	13048-33-4	AIHA	TWA:1 mg/m ³	Dermal
DIACRYLATE			(0.11 ppm)	Sensitizer
TETRAHYDROFURF	2399-48-6	Manufact	TWA:0.1 ppm	Dermal
URYL ACRYLATE		urer	(0.64mg/m³); STEL:0.3	Sensitizer
		determin	ppm(1.91mg/m3)	
		ed		
Acrylic Acid	79-10-7	ACGIH	TWA:2 ppm	SKIN, A4: Not
				class. as
				human carcin
TETRAHYDROFURF	97-99-4	AIHA	TWA:2 mg/m3(0.5 ppm)	
URYL ALCOHOL				



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ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Exposure Controls

Occupational Exposure Controls

Appropriate

Engineering Controls

Use with appropriate local exhaust ventilation. Provide local exhaust ventilation at transfer points. Provide appropriate local exhaust when product is heated. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Personal Protection

Respiratory

Protection



An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Skin/Hand Protection





Eselect and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of



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protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended:

Apron - polymer laminate

Eye Protection : Select and use eye/face protection to prevent contact based on the

Safety Glasses results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect Vented Goggles

9. Physical and Chemical Properties

Appearance - Physical State : Liquid

- Color : Magenta

Odor : Acrylate Odor, pH : Not available

Boiling Point / Boiling Range :>200° F

Melting Point / Melting Range : Not available

Decomposition Temperature : Not available

Flash Point :>200° F

Auto ignition temperature : Not available
Flammability (Solid, Gas) : Not Applicable
Explosive Properties : Not available
Oxidizing Properties : Not available
Upper / Lower Flammability or : Not available

Explosive Limits

Vapor Pressure $: < 10 \text{ mmHg} \ [@ 20 ^{\circ}\text{C}]$ Specific Gravity $: 1.04 \ [\text{Ref Std: WATER=1}]$

Solubility : Not available
Water Solubility : Negligible
Partition Coefficient (n-octanol / Water) : Not available
Viscosity : Not available

Vapor Density :> 1 [Ref Std: AIR=1]

Evaporation Rate : Not available VOC : Not available



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10. Stability and Reactivity

Reactivity : This material may be reactive with certain agents under certain

conditions - see the remaining headings in this section.

Chemical Stability : Stable under normal conditions of use.

Possibility of Hazardous : Hazardous polymerization may occur. (Upon depletion of inhibitor or

Reactions exposure to heat)

Conditions to Avoid : Heat

Incompatible Materials : Strong oxidizing agents

Hazardous : None known.

Decomposition

Refer to section 5 for hazardous decomposition products during combustion

11. Toxicological Information

Acute Toxicity

Name	Value	
Overall	No data available; calculated ATE	
product(Dermal)	>5,000 mg/kg	
Overall	No data available; calculated ATE 2,000	
product(Ingestion)	$-5,\!000$ mg/kg	

Inhalation : Respiratory Tract Irritation: Signs/symptoms may include cough,

sneezing, nasal discharge, headache, hoarseness, and nose and

throat pain.

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.

Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and

itching.

Eye Contact : Severe Eye Irritation: Signs/symptoms may include significant

redness, swelling, pain, tearing, cloudy appearance of the cornea,

and impaired vision

Ingestion : May be harmful if swallowed. Gastrointestinal Irritation:



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Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

: Contains a chemical or chemicals which can cause birth defects or

Additional Health Effects:

Reproductive/Developmental

other reproductive harm.

Toxicity:

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 : Acute Hazard, Category 1, Very toxic to aquatic life

Long Term Hazard, Category 1, Very toxic to aquatic life with long

lasting effects

Persistence and : Not available

Degradability

Bioaccumulation : Not available
Mobility : Not available
Other Toxicity : Not available

13. Disposal Considerations

Disposal Methods : Dispose in accordance with all applicable regulations. Empty

containers may contain product residue.

Do not dump this product into sewers, on the ground or into any body

of water.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

UN Number : UN3082

Shipping : Environmentally hazardous substance, liquid, n.o.s.

Name (Contains: ISOBORNYL ACRYLATE,

1,6-HEXANEDIOL DIACRYLATE)



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Hazardous Class or : 9

Division

Packing Group (PG) : III

Marine Pollutant : Yes

Remarks : Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is

excepted from Dangerous Goods regulations.

Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

15. Regulatory Information

CHEMICAL INVENTORIES

The components of product are compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of TSCA Inventory.

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.

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