

Material Safety Data Sheets

1. Product and Company Identification

Product Name : UVink F-200 Light Magenda
Product Code : SPC-0516LM
General Use : Inkjet Ink
Product Description : UV Inkjet Ink
MSDS Number : 031-33U042C
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: Specific Physical Form: Liquid
Odor, Color, Grade: Acrylate Order, Magenta Color
General Physical Form: Liquid
Immediate health, physical, and environmental hazards: Closed containers exposed to heat from fire may build pressure and explode. Hazardous polymerization may occur. May cause severe eye irritation. May cause allergic skin reaction. May cause severe skin irritation.

Potential Health Effects

Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

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

Material Safety Data Sheets

Skin Contact: Severe 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.

HMIS Rating (scale 0 – 4)

Not available

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	2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	10-30	2399-48-6	C ₈ H ₁₂ O ₃
2	2-Propenoic acid, isooctyl ester	10-25	29590-42-9	C ₁₁ H ₂₀ O ₂
3	2-Propenoic acid, (1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, rel-	10-25	5888-33-5	C ₁₃ H ₂₀ O ₂
4	Amine Modified Acrylate Oligomer	5-20	Trade Secret	Trade Secret
5	Aliphatic Urethane acrylate	10-20	Trade Secret	Trade Secret
6	2-Propenoic acid, 1,6-hexanediyl ester	1-10	13048-33-4	C ₁₂ H ₁₈ O ₄
7	Methanone, diphenyl-	1-10	119-61-9	C ₁₃ H ₁₀ O
8	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	1-10	75980-60-8	C ₂₂ H ₂₁ O ₂ P
9	Acrylic Ester	1-5	Trade Secret	Trade Secret

4. First Aid Measures

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Inhalation : Remove person to fresh air. If signs/symptoms develop, get medical attention.

Material Safety Data Sheets

Eye Contact	: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.
Skin Contact	: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.
Ingestion	: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. Fire Fighting Measures

Flammable Properties	Autoignition temperature	: No Data Available
	Flash Point	: > 200 degree Fahrenheit [Test Method: Closed Cup]
	Flammable Limits – LEL	: No Data Available
	Flammable Limits – UEL	: No Data Available
Extinguishing Media	: Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).	
Protection of Fire Fighters		
Special Fire Fighting Procedures	: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).	
Unusual Fire and Explosion Hazards	: Closed containers exposed to heat from fire may build pressure and explode.	

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

6. Accidental Release Measures

Observe precautions from other sections.

Evacuate unprotected and untrained personnel from hazard area.

The spill should be cleaned up by qualified personnel.

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.

Material Safety Data Sheets

Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

Contain spill.

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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 toxic, corrosive or flammability hazard.

Collect as much of the spilled material as possible.

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 MSDS.

Collect the resulting residue containing solution.

Place in a metal container approved for use in transportation by appropriate authorities.

The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene.

Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state and federal regulations.

7. Handling And Storage

Handling

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

Wash exposed areas thoroughly with soap and water.

Avoid breathing of vapors, mists or spray.

Avoid skin contact.

Avoid eye contact with vapors, mists, or spray.

Avoid contact with oxidizing agents.

Storage

: Store away from heat. Store out of direct sunlight.

Store away from oxidizing agents.

Material Safety Data Sheets

8. Exposure Controls / Personal Protection

Exposure Limit Values

Chemical Name		TWA	Additional Information
2-Propenoic acid, 1,6-hexanediyl ester	AIHA	1mg/m ³	Sensitizer
Methanone, diphenyl-	AIHA	0.5mg/m ³	
2-Propenoic acid, isooctyl ester	AIHA	5ppm	

Source of exposure limit data:

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Provide local exhaust ventilation at transfer points. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

Personal Protection

Respiratory

: Avoid breathing of vapors, mists or spray.

Protection

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges.



Eye/Face Protection

: Avoid eye contact with vapors, mists, or spray.



The following eye protection(s) are recommended:

Safety Glasses with side shields, Indirect Vented Goggles.

(Goggles recommended when a splash potential exists.)

Skin Protection

: Avoid skin contact.



Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Nitrile Rubber.

Prevention of

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

Swallowing

Wash exposed areas thoroughly with soap and water.

Material Safety Data Sheets

9. Physical And Chemical Properties

Appearance	- Physical state	: Liquid
	- Color	: Magenta
Odour		: Acrylate odor
pH		: Not Applicable
Boiling Point / Boiling Range		: >200 degree F
Melting Point / Merging Range		: Not Applicable
Flash Point		: >200 degree F [Test Method: Closed Cup]
Auto-Ignition Temperature		: No data available
Flammable Limits		: No data available
Vapour Pressure		: <10 mmHg [20 degree C]
Density		: 1.04g/ml
Water solubility		: Negligible
Viscosity		: 7~11mPa·s (45 deg C)
Specific Gravity		: 1.04 [Ref Std: WATER=1]
Vapor Density		: >1 [Ref Std: AIR=1]

10. Stability And Reactivity

Stability	: Stable						
Materials and Conditions To Avoid	: Strong oxidizing agents; Heat						
Hazardous Polymerization	: Hazardous polymerization may occur. (Upon depletion of inhibitor or exposure to heat)						
Hazardous Decomposition or By-Products							
	<table><tr><th>Substance</th><th>Condition</th></tr><tr><td>Carbon monoxide</td><td>During Combustion</td></tr><tr><td>Carbon dioxide</td><td>During Combustion</td></tr></table>	Substance	Condition	Carbon monoxide	During Combustion	Carbon dioxide	During Combustion
Substance	Condition						
Carbon monoxide	During Combustion						
Carbon dioxide	During Combustion						

Material Safety Data Sheets

11. Toxicological Information

Acute Toxicity	: Not available
Eye Irritation	: The stimulation of intense eyes.
Skin Irritation	: Intense skin stimulation
Inhalation	: The stimulation of the respiratory system.
Ingestion	: A gastrointestinal tract organization may be stimulated.
Sensitization	: Not available
Mutagenicity	: 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	: Not available
Persistence And Degradability	: Not available
Bioaccumulative Potential	: Not available
Other Adverse Effects	: Not available

13. Disposal Considerations

Waste Disposal Method	: Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste. Since regulations vary, consult applicable regulations or authorities before disposal. <u>Do not dump this product into sewers, on the ground or into any body of water.</u>
-----------------------	--

EPA Hazardous Waste Number (RCRA): Not regulated

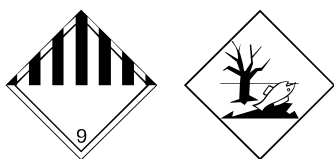
Material Safety Data Sheets

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Land transport ADR/RID (cross-border)



ADR/RID class : 9 Miscellaneous dangerous substances and articles.

Danger code (Kemler) : 90

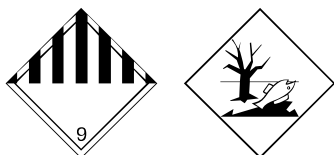
UN-Number : 3082

Packaging group : III

Hazard label : 9

Description of goods : 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

Sea Transport (IMDG)



Class : 9

Packing Group (PG) : III

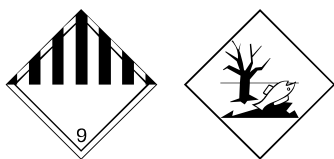
UN Number : 3082

Proper Shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

Name : N.O.S.

Marine Pollutant : No

Air Transport (ICAO/IATA)



Class : 9

Packing Group(PG) : III

UN Number : 3082

Material Safety Data Sheets

Proper Shipping Name : Proper shipping name: ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.

UN "Model Regulation"

:UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.; 9; III

Special precautions for user

:Warning: Miscellaneous dangerous substances and articles

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

: Not applicable.

15. Regulatory Information

US Federal Regulations

Section 311/312 : Fire Hazard-No Pressure Hazard-No Reactivity Hazard-No
(40 CFR 370) Immediate Hazard – Yes Delayed Hazard - No

TSCA Status The components of this product are in compliance with the chemical
notification requirements of TSCA.

Please refer to any other USA, national and local measures.

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	2007/12/21	First issue
2.0	2011/10/11	Revised (14.Transport Information)