

## Safety Data Sheets

### 1. Identification

Product Name : UV ink Magenta  
Order No. : SPC-0371M-2  
General Use : For ink jet  
Product Description : UV curable ink  
SDS Number : 037-U010378  
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. : +1-678-730-0700  
Emergency Telephone No. : +81-268-64-2281

### 2. Hazards Identification

[GHS Classification]

#### Physical Hazards

Flammable Liquids : Not classified

#### Health Hazards

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 2

Sensitization – Skin : Category 1

Specific Target Organ Toxicity : Category 3 (respiratory tract irritation)  
(Single Exposure)

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

## Safety Data Sheets

[GHS Label Elements]

Symbol



Signal Word

Warning

Hazard Statements

- H315 Cause skin irritation
- H317 May cause an allergic skin reaction
- H319 Cause serious eye irritation
- H335 May cause respiratory irritation

Precautionary Statements

[Prevention]

- P261 Avoid breathing gas/mist.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- 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.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- 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 before reuse.

[Storage]

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

[Disposal]

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

### Other Information

[Hazards not otherwise classified (HNOC)]

Not Applicable

[Other hazards]

- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

[Unknown Acute Toxicity]

84% of the mixture consists of ingredient(s) of unknown toxicity

# Safety Data Sheets

HMIS Rating (scale 0 – 4)

Health = 2

Flammability= 1

Reactivity = 0

Protective Equipment = X

②	Health
①	Flammability
①	Reactivity
X	Protective Equipment

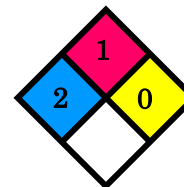
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special = -



CANADIAN WHMIS SYMBOLS : Non-controlled

### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Monomers	65-75	Trade Secret
2	Isooctyl acrylate (structure unspecified)	5-15	29590-42-9
3	Photoinitiator	5-10	Trade Secret
4	Copper compounds	1-5	Trade Secret
5	Oligomer	1-5	Trade Secret
6	Additives	1-5	Trade Secret
7	Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	1-5	162881-26-7

### 4. First Aid Measures

- General advice : If symptoms persist, call a physician.
- Inhalation : Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
- Eye Contact : Rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing.
- Skin Contact : If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse.
- Ingestion : If swallowed, call a poison control center or physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Protection To First-Aiders : Use personal protective equipment as required.

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### Most important symptoms and effects, both acute and delayed

Symptoms : May cause allergic skin reaction.

### Indication of any immediate medical attention and special treatment needed

Note to physicians : May cause sensitization of susceptible persons. Treat symptomatically.

## 5. Fire Fighting Measures

Flammable Properties : Flash point ; 127 °C / 261 ° F  
Explosion data ; No data available

Extinguishing Media : Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media : Do not use straight streams.

Specific hazards arising from the chemical : In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Fire Fighting Instructions : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

Personal Precautions : Use personal protection recommended in Section 8. Avoid contact with eyes and skin. Keep people away from and upwind of spill/leak.

Environmental precautions : Collect spillage. Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods for containment : Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for cleaning up : Use personal protective equipment as required. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

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### 7. Handling and Storage

- Handling : Use personal protection recommended in Section 8. Avoid contact with skin and eyes. Do not breathe gas/mist.
- Storage : Keep out of the reach of children. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Avoid direct sunlight or high temperature.
- Incompatible materials : Strong oxidizing agents.

### 8. Exposure Controls / Personal Protection

- Exposure Limit Values : This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Exposure Controls

##### Occupational Exposure Controls

- Engineering Controls : Showers  
Eyewash stations  
Ventilation systems.

##### Personal Protection

- Respiratory Protection : Consult with a health and safety professional for specific respirators appropriate for your use.



- Hand Protection : Gloves made of plastic or rubber.



- Eye Protection : Tight sealing safety goggles. Face protection shield.



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Skin Protection : Suitable protective clothing. Apron. Gloves made of plastic or rubber.



### General Hygiene Considerations

: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Wash face, hands and any exposed skin thoroughly after handling.

### Environmental Exposure Controls

: Not available

## 9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: Red
Odor		: Characteristic odor
Boiling Point / Boiling Range		: Not Available
Melting Point / Melting Range		: Not Available
Decomposition Temperature		: Not Available
Flash Point		: 127°C / 261° F (Cleveland Open Cup)
Auto ignition temperature		: Not Available
Upper / Lower Flammability or Explosive Limits		: Not Available
Vapor Pressure		: Not Available
Specific Gravity		: 1.0-1.1g/cm <sup>3</sup> (25 °C)
Solubility		: Not Available
Water Solubility		: Immiscible in water
Viscosity		: <30 mPa·s (25 °C)
VOC		: Not Available

## Safety Data Sheets

### 10. Stability and Reactivity

- Conditions to Avoid : Extremes of temperature and direct sunlight.
- Reactivity : No reactivity under the normal usage
- Stability : Stable under recommended storage conditions.
- Materials to Avoid : Strong oxidizing agents.
- Possibility of Hazardous : None under normal processing.
- Reactions
- Decomposition Products : Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 11. Toxicological Information

- Acute Toxicity : 84% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isooctyl acrylate (structure unspecified)	> 5 g/kg (Rat)	-	-

- Eye Irritation : Category 2 as a product.
- Skin Irritation : Category 2 as a product.
- Sensitization : Category 1 as a product.
- Specific Target Organ Toxicity(Single Exposure) : Category 3 (respiratory tract irritation) as a product.
- Chronic Toxicity : Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse liver effects.
- Carcinogenicity : This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### 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.

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Ecotoxicity : Toxic to aquatic life with long lasting effects. Toxic to aquatic life.  
 84% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Fish	Crustaces
Isooctyl acrylate (structure unspecified)	0.67: 96 h Pimephales promelas mg/L LC50	0.4: 48 h Daphnia magna mg/L EC50

Persistence and Degradability : Not Available  
 Bioaccumulative Potential : Not Available  
 Other Adverse Effects : Not Available

### 13. Disposal Considerations

: Disposal should be in accordance with applicable regional, national and local laws and regulations.

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.

Us Department of Transportation (DOT)

UN Number : UN3082  
 Proper Shipping Name : Environmentally hazardous substance, liquid, n.o.s.  
 (Isooctyl acrylate)  
 Hazardous Class : 9  
 Packing Group (PG) : III  
 Special Provisions : 8, 146, 173, 335, IB3, T4, TP1, TP29  
 Marine pollutant : Not Applicable  
 Emergency Response : 171  
 Guide Number :  
 Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.



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(Isooctyl acrylate), 9, III

### TDG

UN Number : UN3082  
Proper Shipping : Environmentally hazardous substance, liquid, n.o.s.  
Name (Isooctyl acrylate)  
Hazardous Class : 9  
Packing Group (PG) : III  
Special Provisions : none  
Marine pollutant : Not regulated  
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.  
(Isooctyl acrylate), 9, III

### MEX

UN Number : UN3082  
Proper Shipping : Environmentally hazardous substance, liquid, n.o.s.  
Name (Isooctyl acrylate)  
Hazardous Class : 9  
Special Provisions : none  
Packing Group (PG) : III  
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.  
(Isooctyl acrylate), 9, III

### IATA

UN Number : UN3082  
Proper Shipping : Environmentally hazardous substance, liquid, n.o.s.  
Name (Isooctyl acrylate)  
Hazardous Class : 9  
Packing Group (PG) : III  
ERG Code : 9L  
Special Provisions : A97, A158  
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.  
(Isooctyl acrylate), 9, III

### Sea Transport (IMDG)

UN Number : UN3082  
Proper Shipping : Environmentally hazardous substance, liquid, n.o.s.  
Name (Isooctyl acrylate)  
Hazardous Class : 9  
Packing Group (PG) : III  
EmS-No. : F-A, S-F

## Safety Data Sheets

Special Provisions : 274,335  
 Marine Pollutant : This material meets the definition of a marine pollutant  
 Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.  
 (Isooctyl acrylate), 9, III  
 Environmental hazard : 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/IATAA197, IMDG 2.10.2.7, ADR SP 375.

### 15. Regulatory Information

#### U.S. Federal Regulations

CERCLA : This material, as supplied, does not contain any substances regulated  
 Reportable Quantity as hazardous substances under the Comprehensive Environmental  
 (40 CFR 302) Response Compensation and Liability Act (CERCLA) (40 CFR 302) or  
 the Superfund Amendments and Reauthorization Act (SARA) (40  
 CFR 355). There may be specific reporting requirements at the local,  
 regional, or state level pertaining to releases of this material

#### SARA Title III

Section 311/312	: Acute health hazard	Yes
(40 CFR 370)	Chronic Health Hazard	No
	Fire hazard	No
	Sudden release of pressure hazard	No
	Reactive Hazard	No

Section 313 : Section 313 of Title III of the Superfund Amendments and  
 (40 CFR 372) Reauthorization Act of 1986 (SARA). This product does not contain  
 any chemicals which are subject to the reporting requirements of the  
 Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act) : This product does not contain any substances regulated as pollutants  
 pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### U.S. State Regulations

California Proposition : This product does not contain any Proposition 65 chemicals  
 65

U.S.State : This product does not contain any substances regulated by state  
 Right-to-Know right-to-know regulations



## Safety Data Sheets

Regulations

U.S.EPA Label Information

EPA Pesticide : Not Applicable

Registration Number

Canada : This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR

WHMIS Hazard Class : Non-controlled

Others : Please refer to any other federal, state and local regulations.

### 16. Other Information

References

- 1) LOLI Database (ChemADVISOR, Inc.)
- 2) Japan National Institute of Technology and Evaluation
- 3) EU CLP(1272/2008)Annex VI Table 3.1

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