

Safety Data Sheets

1. Identification

Product Name : UV ink Yellow
Order No. : SPC-0371Y-2
General Use : For ink jet
Product Description : UV curable ink
SDS Number : 037-U010379
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

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

(Single Exposure)

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

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[GHS Label Elements]

Symbol



Signal Word

Warning

Hazard Statements

H315 Cause skin irritation

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.

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.

P332+P313 If skin irritation 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]

83% of the mixture consists of ingredient(s) of unknown toxicity

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HMIS Rating (scale 0 – 4)

Health = 2

Flammability= 1

Reactivity = 0

Protective Equipment = X

②	Health
①	Flammability
①	Reactivity
ⓧ	Protective Equipment

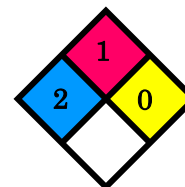
NFPA Rating (scale 0 – 4)

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	1-Butanone, 2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-	1-5	119313-12-1
5	Colorant	1-5	Trade Secret
6	Oligomer	1-5	Trade Secret
7	Additives	1-5	Trade Secret

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.

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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.

Most important symptoms and effects, both acute and delayed

Symptoms : Not Available

Indication of any immediate medical attention and special treatment needed

Note to physicians : Treat symptomatically.

5. Fire Fighting Measures

Flammable Properties : Flash point ; 133 °C / 271 ° F
Explosion data ; No data available

Extinguishing Media : Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media : 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.

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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.

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.



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



Safety Glasses

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



Protective Apron

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	: Yellow
Odor		: Characteristic odor
Boiling Point / Boiling Range		: Not Available
Melting Point / Melting Range		: Not Available
Decomposition Temperature		: Not Available
Flash Point		: 133°C / 271° 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 ³ (25 °C)
Solubility		: Not Available
Water Solubility		: Immiscible in water
Viscosity		: <30 mPa·s (25 °C)
VOC		: Not Available

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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 : 83% 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 : Not Available

Specific Target Organ : Category 3 (respiratory tract irritation) as a product.

Toxicity(Single Exposure)

Chronic Toxicity : Avoid repeated exposure.

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.
83% 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 : Not Available

Degradability

Bioaccumulative : Not Available

Potential

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 : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl
Name acrylate, 1-Butanone,

2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)

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

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Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.
(Isooctyl acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-),
9, III

TDG

UN Number : UN3082
Proper Shipping : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl
Name acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
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, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-),
9, III

MEX

UN Number : UN3082
Proper Shipping : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl
Name acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
Hazardous Class : 9
Special Provisions : none
Packing Group (PG) : III
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.
(Isooctyl acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-),
9, III

IATA

UN Number : UN3082
Proper Shipping : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl
Name acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
Hazardous Class : 9
Packing Group (PG) : III

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ERG Code : 9L
Special Provisions : A97, A158
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.
(Isooctyl acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-),
9, III

Sea Transport (IMDG)

UN Number : UN3082
Proper Shipping Name : Environmentally hazardous substance, liquid, n.o.s. (Isooctyl acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
Hazardous Class : 9
Packing Group (PG) : III
EmS-No. : F-A, S-F
Special Provisions : 274,335
Marine Pollutant Description : This material meets the definition of a marine pollutant
Description : UN3082, Environmentally hazardous substance, liquid, n.o.s.
(Isooctyl acrylate, 1-Butanone,
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-),
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



Product Name: UV ink Yellow

SDS No. 037-U010379

First issue: 2008/06/20

Revised: 2016/07/27

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SARA Title III

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

Section 313
(40 CFR 372) : Section 313 of Title III of the Superfund Amendments and 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 65 : This product does not contain any Proposition 65 chemicals

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

U.S.EPA Label Information

EPA Pesticide Registration Number : Not Applicable

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.

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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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