

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.	:+1-678-730-0170	
Emergency Telephone No.	: +1 866 928 0789 (within United States only, Toll free)	
	$+1\ 215\ 207\ 0061$	

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

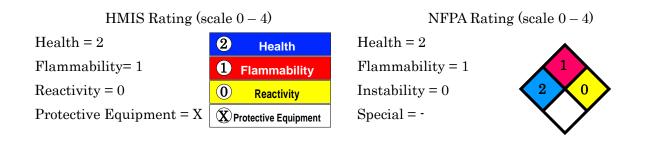


Signal Word Warning

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. Responsel 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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$CANADIAN \ WHMIS \ SYMBOLS \ {}^{:} \ Non-controlled$

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-(phen ylmethyl)-	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	$^\circ$ Flash point ; 133 $^\circ$ C / 271 $^\circ$ F
	Explosion data ; No data available
Extinguishing Media	: Dry chemical, CO2, water spray or alcohol-resistant foam.
Unsuitable Extinguishing	: Straight streams.
Media	
Specific hazards arising	: In the event of fire and/or explosion do not breathe fumes. May
from the chemical	cause sensitization by inhalation and skin contact. Thermal
	decomposition can lead to release of irritating and toxic gases and
	vapors.
Fire Fighting	: As in any fire, wear self-contained breathing apparatus
Instructions	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	: Collect spillage. Prevent entry into waterways, sewers, basements
precautions	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	\div 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
1.	manumig and Storage

Gloves

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	: Consult with a health and safety professional for specific respirators
Protection Vapor Respirator	appropriate for your use.
Hand Protection	: Gloves made of plastic or rubber.

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Eye Protection



Skin Protection



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

: Tight sealing safety goggles. Face protection shield.

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		$^{\rm :}133^{\circ}\!{\rm C}$ / 271° F $$ (Cleveland Open Cup)	
Auto ignition temperature		: Not Available	
Upper / Lower Flammability or		: Not Available	
Explosive Limits			
Vapor Pressu	re	: Not Available	
Specific Grav	ity	: 1.0-1.1g/cm ³ (25 °C)	
Solubility		: Not Available	
Water Solubil	ity	: Immiscible in water	
Viscosity		: <30 mPa⋅s (25 °C)	
VOC		: Not Available	



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	Dermal	Inhalation
	Chemical Name	LD50	LD50	LC50
	Isooctyl acrylate	> 5 g/kg	_	_
	(structure unspecified)	(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			
	Isosstul semulate	0.67: 96 h Pimephales	0.4: 48 h Daphnia	
	Isooctyl acrylate (structure unspecified)	promelas mg/L	magna mg/L	
		LC50	EC50	
Persistence and	: Not Available			
Degradability				
Bioaccumulative	: Not Available	: 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

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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
<u>TDG</u>	
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
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
<u>MEX</u>	
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
<u>IATA</u>	o,
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
<u>Sea Transport (IMDG)</u>	
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
EmS-No.	: F-A, S-F
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, 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/IATA A197, 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	

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SARA TitleIII			
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 Super	fund 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 Fede	eral Regulations, Part 372	
CWA (Clean Water Act)	: This product does not contain any s	substances regulated as pollutants	
	pursuant to the Clean Water Act (4	0 CFR 122.21 and 40 CFR 122.42)	
U.S. State Regulations			
California Proposition	: WARNING		
65	This product can expose you to chemicals including Toluene,		
	which is known to the State of	f California to cause birth defects	
	or other reproductive harm. F	or more information go to	
	www.P65Warnings.ca.gov.		
California Proposition	: This product does not contain any l	Proposition 65 chemicals	
65			
U.S.State	: This product does not contain any s	substances regulated by state	
Right-to-Know	ight-to-Know right-to-know regulations		
Regulations			
U.S.EPA Label Informati	on		
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 require	ed by the CPR	
WHMIS Hazard Class	: Non-controlled		
Others	: Please refer to any other federal, st	ate and local regulations.	



16. Other Information

References1) LOLI Database (ChemADVISOR, Inc.)2) Japan National Institute of Technology and Evaluation3) EU CLP(1272/2008)Annex VI Table 3.1

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