

## 1. Identification

Product Name	: UV ink Yellow
Order No.	: SPC-0404HY
General Use	: For ink jet
Product Description	: UV curable ink
SDS Number	: 037-U011998
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 Esta	blished in Australia
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	
[Classification of the substance or mixtu	are]
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Skin Corrosion / Irritation	Category 2
Eye Damage / Irritation	: Category 2
Specific Target Organ Toxicity	: Category 3
(Single Exposure)	
Environmental Hazards	
Hazardous to the Aquatic	Category 2
Environment - Long Term Hazard	
Classification according to Directive 6	37/548/EEC
Full text of R-phrases: see section 16	w hoing non-classifiable or not-enplicable
The above list does not include catego	ry being non-classifiable or not-applicable.
[Harand sumbala]	

[Hazard symbols] Xi - Irritant



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N - Dangerous for the environment [R-code(s)] Xi;R36/37/38 - N;R51/53 [Label Elements] Symbol



Signal Word Warning

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

H335 - May cause respiratory irritation

Precautionary Statements - EU (§28, 1272/2008)

[Prevention]

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

[Response]

 $\rm P302$  +  $\rm P352$  - 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

P362 - Take off contaminated clothing and wash before reuse

[Other hazards]

Hazards not otherwise classified (HNOC)

· Not Applicable

Other hazards

 $\cdot \,$  Toxic to aquatic life

#### 3. Composition / Information on Ingredients

Pure substance/mixture: mixture

Chemical Name	CAS No			Classification
		weight-	Classification according to	according to Regulation
		%	Directive 67/548/EEC	(EC) No. 1272/2008
				[CLP]
Monomers	CBI	65-75	-	No data available
Isooctyl acrylate (structure	29590-42-9	~ 1~	Xi; R36/37/38	Skin Irrit. 2 (H315)
unspecified)		5-15	N; R50-53	Eye Irrit. 2 (H319)



				STOT SE 3 (H335)
				Aquatic Acute 1 (H400)
				Aquatic Chronic 1 (H410)
Azo nickel complex pigment (Nickel compounds)	CBI	1-5	-	No data available
1-Butanone, 2-(dimethylamino)-1-[4-(4-morph olinyl)phenyl]-2-(phenylmethyl)-	119313-12-1	1-5	N; R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Photoinitiator	CBI	1-5	-	No data available
Oligomer	CBI	1-5	-	No data available
Additives	CBI	1-5	-	No data available

Full text of R-phrases: see section 16

Full text of H-phrases: see section 16

## 4. First Aid Measures

: If symptoms persist, call a physician.		
: Move to fresh air in case of accidental inhalation of vapors. If		
symptoms persist, call a physician.		
: If skin irritation persists, call a physician. Wash off immediately		
with soap and plenty of water. Wash contaminated clothing before		
reuse.		
: 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.		
: 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.		
: Use personal protective equipment as required.		
and effects, both acute and delayed]		
: No data available.		
[Indication of any immediate medical attention and special treatment needed]		
: Treat symptomatically.		

## 5. Fire Fighting Measures



Flammable Properties	: Flash Pont、136 $^\circ$ C / 277 $^\circ$ F
Suitable Extinguishing	: Dry chemical, CO2, water spray or alcohol-resistant foam.
Media	
Unsuitable Extinguishing	: Do not use straight streams
Media	
Special hazards arising	: In the event of fire and/or explosion do not breathe fumes. May
from the substance or	cause sensitization by inhalation and skin contact. Thermal
mixture	decomposition can lead to release of irritating and toxic gases and
	vapors.
Advice for firefighters	: Wear self-contained breathing apparatus and protective suit. Use
	personal protective equipment as required.

## 6. Accidental Release Measures

[Personal Precautions, Prot	ective Equipment and Emergency Procedures]		
Personal precautions	: Use personal protection recommended in Section 8. Avoid contact		
	with eyes and skin. Keep people away from and upwind of spill/leak.		
For emergency	: Use personal protection recommended in Section 8.		
responders			
Environmental	: Collect spillage. Prevent entry into waterways, sewers, basements		
Precautions	or confined areas. Do not flush into surface water or sanitary sewer		
	system.		
[Methods and material for c	ontainment and cleaning up]		
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.		
Reference to other	See Section 12: ECOLOGICAL INFORMATION.		
sections			

## 7. Handling and Storage

[Precautions for Safe Handling]

Advice on safe handling : Use personal protection recommended in Section 8. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene	: When using do not eat, drink or smoke. Wash contaminated clothing		
Considerations	before reuse. Regular cleaning of equipment, work area and clothing is		
	recommended. Wash face, hands and any exposed skin thoroughly		
	after handling.		
[Conditions for Safe Storag	ge, including any Incompatibilities]		
Storage Conditions	: Keep out of the reach of children. Keep in properly labeled containers.		
	Keep containers tightly closed in a dry, cool and well-ventilated place.		
	Avoid direct sunlight or high temperature.		
[Specific end use(s)]			
Risk Management	: The information required is contained in this Safety Data Sheet.		
Methods (RMM)			

## 8. Exposure Controls / Personal Protection

[Control	parameters]
[00110101	parameters

Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
Azo nickel complex			IDLH: 10 mg/m3 Ni
pigment (Nickel	-	-	TWA: 0.015 mg/m3 except
compounds)			Nickel carbonyl Ni

[Exposure Controls]

Engineering Controls : Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face protection	: Tight sealing safety goggles. Face protection shield.
Hand Protection	: Gloves made of plastic or rubber.
Skin and body	Suitable protective clothing. Apron. Gloves made of plastic or
protection	rubber.
Environmental	: Do not allow into any sewer, on the ground or into any body of water.
exposure controls	



## 9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: yellow
Odor		: Characteristic odor

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Product Name: UV ink Yellow SDS No. 037-U011998 First issue: 2017/04/06 Revised: 2019/11/12

Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 136 °C / 277 °F (Cleveland Open Cup)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability Limits in Air	: No data available
Upper flammability limits	
Lower flammability limit	
Vapor Pressure	: No data available
Vapor density	: No data available
Specific gravity	: 1.0-1.1g/cm3(25 deg.C)
Solubility(ies)	: Immiscible in water
Partition coefficient	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: <30 mPa·s(25 deg.C)
[Other information]	
Molecular weight	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Softening point	: No data available
VOC Content (%)	: No data available
Density	: No data available
Bulk density	: No data available

## 10. Stability and Reactivity

Reactivity	: No reactivity under the normal usage.
Chemical Stability	: Stable under normal conditions.
Explosion data	: Sensitivity to Mechanical Impact; No data available.
	Sensitivity to Static Discharge; No data available.
Possibility of Hazardous	: None under normal processing.
Reactions	



Conditions to Avoid	: Heat, flames and sparks.
Incompatible Materials	: Strong oxidizing agents.
Hazardous	: Thermal decomposition can lead to release of irritating and toxic
decomposition products	gases and vapors.

## 11. Toxicological Information

[Information on toxicological effects]

## Acute Toxicity

Unknown Acute : 83% of the mixture consists of ingredient(s) of unknown toxicity.

Toxicity

Component

Information

## LD/LC50 values that relevant for classification.

Chemical Name		Oral LD50	Dermal LD50	Inhalation LC50
Isooctyl acrylate (structure unspecified)		> 5 g/kg ( Rat )	-	-
Skin	: No data availa	ble.		
corrosion/irritation				
Serious eye damage/eye	: No data availa	ble.		
irritation				
Sensitization	: No data availa	ble.		
Germ cell mutagenicity	: No data availa	ble.		
Carcinogenicity	: No data availa	ble.		
Reproductive toxicity	: No data availa	ble.		
STOT - single exposure	: No data availa	ble.		
STOT - repeated	: No data availa	ble.		
exposure				
Chronic toxicity	: Avoid repeated	l exposure		
Aspiration hazard	: No data availa	ble.		
[Information on likely routes of exposure]				
INHALATION	: No data availa	ble.		
Eye contact	: No data availa	ble.		
Skin Contact	: No data availa	ble.		
INGESTION	: No data availa	ble.		

#### 12. Ecological Information

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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 : The table below indicates component(s) of known hazards to the aquatic environment. Toxic to aquatic life with long lasting effects.
83% of the mixture consists of component(s) of unknown hazards to

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isooctyl acrylate		0.67: 96 h Pimephales	0.4: 48 h Daphnia
(structure unspecified)	_	promelas mg/L LC50	magna mg/L EC50
Persistence and	: No data available		
Degradability			
Bioaccumulative	: No data available		
potential			
Mobility in soil	: No data available		
Results of PBT and	: This preparation contains no substance considered to be persistent,		
vPvB assessment	bioaccumulating nor toxic (PBT). This substance is not considered to		
	be very persistent nor very bioaccumulating (vPvB).		
Other adverse effects	: No data available		

13. Disposal Consideratio	ns
[Waste treatment methods	s]
Waste from Residues /	: Disposal should be in accordance with applicable regional, national
Unused Products	and local laws and regulations.
Contaminated	: Disposal should be in accordance with applicable regional, national
packaging	and local laws and regulations.
Other Information	: Waste codes should be assigned by the user based on the application
	for which the product was used.

## 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

[IMDG]

UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Isooctyl



	acrylate, 1-Butanone,
	2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
Hazard Class	:9
Packing Group	: III
Marine pollutant	: This material meets the definition of a marine pollutant
Environmental hazard	: Yes
Special Provisions	: 274, 335
EmS-No	: F-A, S-F
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(Isooctyl acrylate, 1-Butanone,
	2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-), 9,
	III
[RID]	
UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Isooctyl
	acrylate, 1-Butanone,
	2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
Hazard Class	: 9
Packing Group	: III
Environmental hazard	: Yes
Classification code	: M6
Special Provisions	: none
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(Isooctyl acrylate, 1-Butanone,
	2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-), 9,
	III
[ADR]	
UN/ID no	: UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Isooctyl
	acrylate, 1-Butanone,
	2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
Hazard Class	: 9
Packing Group	: III
Environmental hazard	: Yes
Special Provisions	:274,335,601
Classification code	: M6
Tunnel restriction code	: (E)

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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, (E)
[IATA]	
UN/ID no	: UN3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Isooctyl
	acrylate, 1-Butanone,
	2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-)
Hazard Class	: 9
Packing Group	: III
Environmental hazard	: Yes
Special Provisions	: A97, A158
ERG Code	: 9L
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
	(Isooctyl acrylate, 1-Butanone,
	2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-), 9,
	III
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 [Safety, health and environmental regulations/legislation specific for the substance or mixture] International : AICS; Complies Inventories Legend; AICS - Australian Inventory of Chemical Substances National Regulations : National occupational exposure limits.

See chapter 8.

## 16. Other Information

[Full text of R-phrases referred to under sections 2 and 3]

 $\rm R50/53$  - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/37/38 - Irritating to eyes, respiratory system and skin

 $\rm R51/53$  - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic



## environment

[Full text of H-Statements referred to under sections 2 and 3]

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

[Key or legend to abbreviations and acronyms used in the safety data sheet]

ACGIH (American Conference of Governmental Industrial Hygienists)

[Key literature references and sources for data]

No information available

[Reference]

LOLI Database (ChemADVISOR, Inc.)

The reference on GHS classification results

EU CLP(1272/2008)Annex VI Table 3.1

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