

Product Name: HS ink Yellow SDS No. 037-S067111

First issue: 2021/12/16

Revised:

Safety Data Sheets

1. Identification

Product Name : HS ink Yellow

Order No. : SPC-0473Y-5, SPC-0589Y-5

General Use : Ink for ink jet printer
Product Description : Solvent pigment ink

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 Information

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

[GHS Classification]

Physical Hazards

Flammable Liquids : Category 4

Health Hazards

Acute Toxicity – Oral : Not classified

Acute Toxicity – Dermal : Not classified

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 2

Sensitization – Skin : Category 1

Germ Cell Mutagenicity : Category 2

Toxic to Reproduction : Category 2

Specific Target Organ Toxicity : Category 2 (respiratory system)

(Single Exposure)

Specific Target Organ Toxicity : Category 1 (bone marrow, spleen, kidneys, adrenal

(Repeated Exposure) gland, respiratory system and liver)

Category 2 (central nervous system, bone)



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Environmental Hazards

Hazardous to the Aquatic

: Category 3

Environment - Acute Hazard

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

[GHS Label Elements]

Symbol





Signal Word Danger

Hazard Statements

H227 Combustible liquid

H315 Cause skin irritation

H317 May cause an allergic skin reaction

H319 Cause serious eye irritation

H341 Suspected of causing genetic defects

H361 Suspected of damaging fertility or the unborn child

H371 May cause damage to respiratory system

H372 Causes damage to bone marrow, spleen, kidneys, adrenal gland, respiratory system and liver through prolonged or repeated exposure

H373 May cause damage to central nervous system, bone through prolonged or repeated exposure

H402 Harmful to aquatic life

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

P260 Do not breathe gas/mist.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

[Response]

P302+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.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see 4-Response on our website/SDS URL:

www.mimaki.co.jp/sds).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.



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P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use appropriate media for extinction.

[Storage]

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Azo Yellow pigment	0.1-5	Registered
2	Vinyl chloride / Vinyl acetate copolymer resin	0.1-5	Registered
3	Polyester resin	0.1-5	Registered
4	Dipropylene glycol methyl ether acetate	10-30	88917-22-0
5	Dipropylene glycol dimethyl ether	10-30	111109-77-4
6	3-Methoxybutyl acetate	10-30	4435-53-4
7	N-Methyl-2-pyrrolidone	10-30	872-50-4
8	Cyclohexanone	1-5	108-94-1
9	Additives	0.1-5	Registered

4. First Aid Measures

Inhalation : If inhaled, immediately remove to fresh air and keep warm and

calm. If breathing irregularly or not breathing, give artificial

respiration and consult a doctor immediately.

Eye Contact : Flush eyes thoroughly with water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Consult an ophthalmologist

immediately.

Skin Contact : Wash skin thoroughly with plenty of water. If on clothing, remove

immediately contaminated clothing.

Ingestion : Do not induce vomiting. If swallowed, keep calm and consult a

doctor immediately. Keep from swallowing vomit.

Protection To First-Aiders : Wear tools for appropriate protection. Ventilate. See section 7 and 8.

Indication of Immediate : Treat symptomatically and supportively.

Medical Attention and



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Special Treatment Needed, If Needed

5. Fire Fighting Measures

Flammable Properties : Avoid breathing combustion products.

Flash point : 65°C

Ignition point : Not available Explosion point : 0.85~15.00vol%

Extinguishing Media : Foam, carbon dioxide, dry chemical, water spray

Unsuitable Extinguishing : Do not scatter spilled material with high-pressure water streams

Media

Fire Fighting Measures : Move container from fire area if it can be done without risk. Do not

scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or combustion by-products. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate

hazard area and deny entry. Let the fire burn. Withdraw

immediately in case of rising sound from venting safety device or

any discoloration of tanks due to fire.

Special Protective

Equipment and

Precautions for

Firefighters

: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible

exposure.



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6. Accidental Release Measures

Personal Precautions,

Protective Equipment

and Emergency

Procedures

Methods and Materials

for Containment and

Cleaning Up

: Wear personal protective clothing and equipment, see Section 8.

Avoid release to the environment.

: Eliminate all ignition sources if safe to do so. Stop leak if possible

without personal risk. Reduce vapors with water spray.

Small spills: Absorb with sand or other non-combustible material.

Collect spilled material in appropriate container for disposal.

Large spills: Dike for later disposal. Keep unnecessary people away,

isolate hazard area and deny entry. Stay upwind and keep out of low

areas.

7. Handling and Storage

Handling : Ob

: Obtain SDS (Safety Data Sheet) and printer's operation manual

before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot

surfaces.-No smoking. Do not breathe gas/mist. Wash hands

thoroughly after handling. Do not eat, drink or smoke when using

this product. Contaminated work clothing should not be allowed out

of the workplace. Avoid release to the environment. Wear protective

gloves/protective clothing/eye protection/face protection.

Storage : Store and handle in accordance with all current regulations and

standards. Keep container tightly closed. Keep cool. Grounding and

bonding required. Store locked up. Keep separated from incompatible

substances.



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8. Exposure Controls / Personal Protection

Exposure Limit Values

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No	Chemical Name	Occupational Exposure Standards (Safe Work Australia)			
1	Cyclohexanone	25ppm (TWA)、100mg/m3 (TWA)			
2	N-Methyl-2-pyrrolidone	75ppm (STEL)、309mg/m3 (STEL)			
		25ppm (TWA)、103mg/m3 (TWA)			

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Ve

: Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection

Respiratory

: Wear protective masks for hazardous materials.

Protection



Hand Protection

: Wear gloves resistant to organic solvents and chemicals.



Eye Protection

: Wear coverall, chemical goggles and face shield when handling.



Skin Protection



: To prevent any contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as

appropriate.

Environmental Exposure Controls

: Not available



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9. Physical and Chemical Properties

Appearance - Physical State : liquid (25°C)

- Color : Yellow

Odor : Solvent odor pH : Not available Boiling Point / Boiling Range : $156\sim209$ °C Melting Point / Melting Range : <-30°C

Flash Point : 65° C

Flammability (Solid, Gas) : Not Applicable Upper / Lower Flammability or : $0.85 \sim 15.00 \text{ vol}\%$

Explosive Limits

Vapor Pressure : 450Pa (20°C)

Vapor Density : 6.6

Relative Density $: 0.97 (25^{\circ}\text{C})$

Solubility (Ies) : Very small amount

Partition Coefficient (n-octanol / Water) : Not available

Viscosity $\div 4.0 \text{mPa} \cdot \text{s} (25 ^{\circ}\text{C})$

10. Stability and Reactivity

Conditions to Avoid : Excessive heat and cold, sparks, ignition sources, direct sunlight and

high humidity.

Stability : Stable

Materials to Avoid : Oxidant, reducing agent, strong acid, strong base, inert gas,

deoxidant

Hazardous Reactions /

: Combustion: toxic gases, oxides of carbon, oxides of nitrogen

Decomposition Products

Other : Plastic and rubbers might be melted.



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11. Toxicological Information

Acute Toxicity :

	Oral	Dermal
	(rat)	(rabbit)
	LD50	LD50
$\operatorname{Product}$	>2,000mg/kg	>2,000mg/kg
	Not classified	Not classified

Eye Contact : eye irritation

Skin Irritation : irritation, sensitization

Sensitization : Skin sensitization may occur.

Mutagenicity : Available data characterizes components of this product as germ cell

mutagenicity

: respiratory system

Carcinogenicity : Cyclohexanone (CAS No. 108-94-1)

IARC Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Specific Target Organ

Toxicity - Single

Exposure

Specific Target Organ

: bone marrow, spleen, kidneys, adrenal gland, respiratory system and

Toxicity - Repeated

liver, central nervous system, bone

Exposure

Reproductive and

: Available data characterizes components of this product as

Developmental Toxicity

reproductive hazards.

Others : 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 : Hazardous to the Aquatic Environment - Acute Hazard

Calculated value: L(E)C50 > 10.0 mg/L Category 3

Persistence and : Not available

Degradability



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Bioaccumulative

: Not available

Potential

Other Adverse Effects : Not available

13. Disposal Considerations

Have waste inks, containers and other materials disposed by licensed industrial waste disposer.

Adsorb to diatom earth and others to dispose waste inks, and use open incinerator.

Dispose of wastes by licensed industrial waste disposer to comply with the local laws and regulations. Empty inks and other materials out of containers if disposed.

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.

UN Number : Not Applicable

15. Regulatory Information

Australia Regulations

Industrial Chemicals : List of Chemicals with High Hazards for Categorisation

Act

16. Other Information

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