

MSDS No.031-34S01YC First issue: 2008/06/18 Revised: 2018/08/29

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1. Product and Company Identification

Product Name : SS ink Yellow Product Code : SPC-0347Y-2

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

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Manufacture

Company Name : Mimaki Engineering Co., Ltd

Address : 2182-3 Otsu, Shigeno, 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. : +81-268-64-2281

2. Hazards Identification

Emergency Overview : Combustible liquid. Acute toxic substance.

Stagnant vapor may cause fire.

May cause organic solvent poisoning.

Do not inhale. Inhalation may cause any of the following symptoms: dizziness, headache, the stimulation of eyes, skin and respiratory

tract.

Potential Health Effects

Inhalation : Harmful by inhalation. Irritating to respiratory system.

Eye Contact : Irritating to eyes.

Skin Contact : Harmful in contact with skin. Irritating to skin.

Ingestion : Harmful: may cause lung damage if swallowed.

Carcinogens : No ingredients are listed by OSHA, IARC, or NTP as known or

suspected carcinogens.

Potential Environmental : Toxic to aquatic organisms, may cause long-term adverse effects in

Effects the aquatic environment.

Medical conditions : No medical conditions are known to be aggravated by exposure to SS

ink.



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3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula	
1	Cyclohexanone	1.0~4.5	108-94-1	$C_6H_{10}O$	
2	2-butoxyethyl acetate	70.0~80.0	112-07-2	$\mathrm{C_8H_{16}O_3}$	
3	2-methoxy-1-methylethyl acetate	10.0~20.0	108-65-6	$\mathrm{C_6H_{12}O_3}$	
4	Azo Nickel complex pigment	1.0~5.0	Trade Secret	Trade Secret	
5	Vinylchloride-Vinylacetate Copolymer	1.0~5.0	9003-22-9	-(CH ₂ CHCl) _n -(CH ₂ CHOCOCH ₃) _m -	

OSHA Hazardous : Components 1, 2 are hazardous components.

Components

(29 CFR 1910. 1200)

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. Keep from swallowing vomit.

Consult a doctor immediately.

If inhaled and feeling sick, remove to fresh air, keep warm and calm

and consult a doctor.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes.

Consult a doctor immediately.

Skin Contact : Immediately remove from skin with cloth.

Flush thoroughly with plenty of water and soap or skin detergent.

Do not use solvent or thinner.

Consult a doctor in case of change of appearance or ache

Ingestion : If swallowed, keep calm and consult a doctor immediately.

Keep from swallowing vomit.

Protection To First-Aiders : Wear a tool for appropriate protection. Ventilate.

Note To Physician :Treatment may vary with condition of victim and specifics of

incident.



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5. Fire Fighting Measures

Flammable Properties : The harmful gas such as carbon monoxide or the low molecule

monomer occurs by combustion

Flash point: 65.1 degree C
Ignition point: 340 degree C
Flammable point: 0.8% to 10.7%

Extinguishing Media : CO₂, foam, powder, dry sand.

Never splash water.

Fire Fighting : Use proper protection (heat-resisting clothes, etc.).

Instructions Promptly remove flammables.

6. Accidental Release Measures

Personal Precautions : Avoid contact with eyes. Do not rub eyes with hands during cleanup.

No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Land Spill : Use proper protection (gloves, masks, aprons, goggles, etc.)

If Collect spills in a sealing container and remove to safe place.

Dispose of waste according to legal instructions.

Promptly remove ignitable, hot, or flammable items.

Prepare proper fire extinguishers for accidental ignition.

Use plastic or other equipment to prevent sparks during recovery

operation. Use dry sand, dirt or other nonflammable absorber.

Water Spill : Avoid discharge to rivers and environmental effects.

7. Handling And Storage

Handling : Use proper protection (gloves, masks, aprons, goggles, etc.)

Handle in well-ventilated area.

Prohibit use of fire, sparks or heat source.

Ground equipment against electrostatics and use explosion-proof

electric equipment.
Use spark-proof tools.

Keep used cloths, waste paints or spray dusts in water until disposal.

Use local exhaust system and proper protection if working in closed



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area.

Storage : Keep from sunlight.

Store in well-ventilated area.

Keep from open fire or heat source.

8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name		TWA	STEL	Ceiling	Skin	SEN
1	Cyclohexanone	OSHA PEL	N.E.	N.E.	N.E.	N.E.	N.E.
		ACGIH TLV	20ppm	50ppm.	N.E.	N.E.	N.E.
2	2-butoxyethyl acetat	OSHA PEL	N.E.	N.E.	N.E.	N.E.	N.E.
		ACGIH TLV	20ppm	N.E	N.E.	N.E.	N.E.
3	2-methoxy-1-methyl	OSHA PEL	N.E	N.E.	N.E.	N.E.	N.E.
	ethyl acetate	ACGIH TLV	N.E	N.E.	N.E.	N.E.	N.E.

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Use explosion-proof handling equipment.

Use exhaust system to prevent vapor build-up

Ground transporting, scooping, agitating or other liquid handling

equipment.

Keep heat or fire sources from handling area.

If working indoors, use automatic coating machine or other proper equipment to protect workers from direct exposure or use local

exhaust system to protect workers from exposure.

Personal Protection

Respiratory Protection : Wear gas masks for organic gases.

Wear ventilation masks when working in closed area.

An air-purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where air-borne

concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited.

Hand Protection : Wear gloves that resist organic solvents and chemicals.



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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

9. Physical And Chemical Properties

Flammability(solid, gas)

Appearance - Physical state : liquid

- Color : Yellow

Odor : Solvent odor
pH : Not applicable
Boiling Point / Boiling Range : 146 degree C
Melting Point / Melting Range : Not available
Flash Point : 65.1 degree C
Auto-Ignition Temperature : 340 degree C

Explosive Properties : Flammable point: 0.8% to 10.7%

: Not Applicable

Vapor Pressure : 500Pa(20 degree C)



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Specific Gravity : 0.967(20 degree C)

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

Viscosity $\div 4.1\pm 0.3(20 \text{ degree C})$

Vapor density : Not available

VOC :906.3 g/l

10. Stability And Reactivity

Conditions To Avoid : Excessive heat and cold. Sparks. Ignition sources. Direct sunlight.

High humidity.

Stability : Stable

Materials To Avoid : Strong acid. Strong bases.

Hazardous Reactions/ : Will not occur.

Decomposition Products To burn this product may be produce toxic gases such as CO and

low-molecular-weight monomers.

11. Toxicologocal Information

Acute Toxicity : Oral LD50(rat)

Cyclohexanone 1353mg/kg 2-butoxyethl acetate 3000mg/kg 2-methoxy-1-methylethl acetate 8532mg/kg Azo Nickel complex pigment 5000mg/kg< LD50(rabbit) : Dermal Cyclohexanone 950mg/kg 2-butoxyethl acetate 1500 mg/kg>5000mg/kg 2-methoxy-1-methylethl acetate

: Inhalation LC50(rat) LC50(rabbit)
Cyclohexanone LC50(rat) 8000ppm/4Hr

2-methoxy-1-methylethl acetate 4345ppm 24700ppm

Eye Irritation : 2-methoxy-1-methylethl acetate compound

Irritating to eyes.

Skin Irritation : Not available
Sensitization : Not available



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Mutagenicity : 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 : Not Available

Persistence And : Not Available

Degradability

Bioaccumulative : Not Available

Potential

Other Adverse Effects : Not Available

13. Disposal Considerations

: Have waste liquids, containers and other materials disposed of by licensed industrial waste contractors.

Keep waste liquids from flushing containers, machines or other equipment from flowing directly to the ground or drainage.

Dispose of wastes from drainage, combustion, etc, in compliance with laws and regulations on waste disposal or cleaning, or have them disposed of by contractors.

To avoid harmful gases, do not use incinerators without flushing systems to burn wastes and other materials.

Comply with all EU, national and local regulations.

<u>Do not dump this product into sewers, on the ground or into any body of water.</u>

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Us Department of Transportation (DOT)

Hazardous Materials : Not Applicable



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Sea Transport (IMDG)

Class : No classification assigned.

Packing Group (PG) : UN Number : Proper Shipping Name : Marine Pollutant : Air Transport (ICAO/IATA)

Class : No classification assigned.

Packing Group(PG) :UN Number :Proper Shipping Name :-

15. Regulatory Information

OSHA Status : Not Applicable

TSCA Status : All components on TSCA INVENTORY.

Cercla Reportable : Not Applicable

Quantity

(40 CFR 117, 302)

SARA TitleIII

Section 302 : Not Applicable

(40 CFR 355)

Section 311/312 : Not Applicable

(40 CFR 370)

Section 313 : Not Applicable

(40 CFR 372)

California Proposition : WARNING:

This product can expose you to chemicals including Nickel

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compounds, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

16. Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.



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It relates only to the specific material designated herein, and dose not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

Revision history

Version	Date	Content
1.0	2008/06/18	First issue.
2.0	2012/04/26	No.3 Revise CAS No. and Chemical Formula
3.0	2018/08/29	No.15 Proposition 65 Information Described