

Yellow

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Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

1. Product and Company Identification

Product Name : Dye Sublimation Ink Sb300 Yellow

Product Code : SB300-Y-BB / SB300-Y-2L

General Use : Ink jet printing ink
Product Description : Dye Sublimation Ink

MSDS Number : 031-37W24YB

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. : 1-678-730-0100 Emergency Telephone No. : +81-268-64-2413

2. Hazards Identification

WARNING!

Emergency Overview : Irritating to eyes

May cause adverse kidney effects

May cause sensitization by skin contact

Mist or aerosol may be irritating to eyes, nose, throat, and lungs

Contains a known or suspected mutagen

Appearance : Yellow
Physical State : Liquid
Odor : Specific

Potential Health Effects

Principle Routes of Exposure : Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes : May cause slight irritation.

Skin : May cause skin irritation and/or dermatitis.



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Inhalation : May be harmful if inhaled. Inhalation of aerosols: May cause

irritation of respiratory tract.

Ingestion : May be harmful if swallowed.

May cause additional affects as listed upper "Inhalation".

Chronic Effects : Prolonged exposure may cause chronic effects.

May cause adverse kidney effects. Contains materials which based on animal tests may cause adverse reproductive and birth effects at maternally toxic levels. Contains a known or suspected mutagen.

Aggravated Medical

: Respiratory disorders. Kidney disorders.

Conditions

Environmental Hazard : See Section 12 for additional Ecological Information.

3. Composition / Information On Ingredients

SUBSTANCE/MIXTURE

: Mixture

No	Chemical Name	Wt%	CAS No.	Chemical
		VV L%0	CAS No.	Formula
1	Propylene glycol	10-30	57-55-6	$\mathrm{C_{3}H_{8}O_{2}}$
2	Glycerol	1-20	56-81-5	$\mathrm{C_3H_8O_3}$
3	Disperse dye	1-10	Trade Secret	Trade Secret
4	Water	20-50	7732-18-5	${ m H_2O}$
5	Additives	<5	Trade Secret	Trade Secret

OSHA Hazardous

: Not hazardous.

Components

(29 CFR 1910, 1200)

4. First Aid Measures

General Advice : If symptoms persist, call a physician.

Eye Contact : Immediately flush with plenty of water. After initial flushing, remove any

contact lenses and continue flushing for at least 15 minutes. Keep eye wide

open while rinsing. If symptoms persist, call a physician.

Skin Contact : Wash off immediately with soap and plenty of water. If symptoms persist,

call a physician.



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Inhalation : IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing. If breathing has stopped, contact emergency

medical services immediately.

Ingestion : Call a physician or Poison Control Center immediately. Clean mouth with

water and afterwards drink plenty of water. Do not induce vomiting

without medical advice.

Notes to Physician : Treat symptomatically.

5. Fire Fighting Measures

Flammable Properties : Combustible material: may burn but does not ignite readily.

Flash Point : Not determined.

Suitable Extinguishing : Use extinguishing measures that are appropriate to local

Media circumstances and the surrounding environment.

Explosion Data

Sensitivity to Mechanical Impact : None Sensitivity to Static Discharge : None

Protective Equipment and : As in any fire, wear self-contained breathing apparatus

Precautions for Firefighters pressure-demand, MSHA/NIOSH (approved or

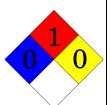
equivalent) and full protective gear.

NFPA

Health Hazard: 0 Flammability: 1

Instability: 0

Physical and Chemical Hazards:



HMIS

Health Hazard : 1*

Flammability: 1

Physical Hazard : 0

Personal Protection:



6. Accidental Release Measures

Personal Precautions : Wear protective gloves/clothing and eye/face protection. Ensure

adequate ventilation. Avoid contact with the skin and the eyes.



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Environmental Precautions : Prevent entry into waterways, sewers, basements or confined

areas. Do not flush into surface water or sanitary sewer system.

Methods for Containment : Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up : For spills: Absorb with inert absorbent materials such as: Dry sand.

Vermiculite. Activated charcoal. Place in appropriate chemical

waste container.

7. Handling And Storage

Handling : Handle in accordance with good industrial hygiene and safety practice.

Wear personal protective equipment. Avoid breathing vapors or mists.

Avoid contact with skin, eyes and clothing. Remove and wash

contaminated clothing before re-use. Do not eat, drink or smoke when

using this product.

Storage : Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Exposure Guidelines

Chemical Na	ime .	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol	TV	WA: 10 mg/m ³	TWA: 15 mg/m³ mist, total particulate	-
CAS No 56-8	31-5 m	ist	TWA: 5 mg/m³ mist, respirable fraction	
			TWA: 10 mg/m³ mist, total particulate (vacated)	
			TWA: 5 mg/m³ mist, respirable fraction (vacated)	

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

Other Exposure Guidelines : Vacated limits revoked by the Court of Appeals decision in

AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures : Showers

Eyewash stations Ventilation systems



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Personal Protective Equipment

Eye/Face Protection : Safety glasses with side-shields.



Skin and Body

Protection

: Wear protective gloves/clothing.







Respiratory Protection: If exposure limits are exceeded or irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn.

Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must

be provided in accordance with current local regulations.



Hygiene Measures

: Handle in accordance with good industrial hygiene and safety

practice.

9. Physical And Chemical Properties

Appearance - Physical state : Liquid

- Color : Yellow

Odor : Specific

Odor Threshold : No information available.

pH : 6-8

Boiling Point / Boiling Range : No information available.

Melting Point / Melting Range : No information available.

Decomposition Temperature : No information available.

Flash Point : No information available.

Autoignition Temperature : No information available.

Flammability Limits in Air : No information available.



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Explosion Limits : No information available.

Vapor Pressure : No data available Specific Gravity : 1.0-1.2(25 degree C)

Solubility : No information available.

Water solubility : Soluble in water

Viscosity : 3-6mPa.s(25 degree C)

Vapor Density : No data available

Evaporation Rate : No information available

VOC Content (%) : 20-40

10. Stability And Reactivity

Conditions to Avoid : Heat, flames and sparks.

Stability : Stable under recommended storage conditions.

Incompatible Products : Strong oxidizing agents. Chlorosulfonic acid, oleum, sulfuric acid,

perchloric acid, chromium trioxide, potassium permanganate and

sodium peroxide.

Hazardous : Sulfur oxides. Nitrogen oxides (NOx). Carbon dioxide (CO2) Carbon

Decomposition Products monoxide (CO).

Hazardous : Hazardous polymerization does not occur.

Polymerization

11. Toxicologocal Information

Acute Toxicity

Product Information : May be harmful if swallowed. May be harmful by inhalation.

Mist or aerosol may be irritating to eyes, nose, throat, and lungs.

May cause eye and skin irritation.

Component Information

r r r r r r r r r r r r r r r r r r r				
Chemical Name LD50 Oral Disperse dye 5 g/kg (Rat)		LD50 Dermal	LC50 Inhalation	
		-	-	
Propylene glycol	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	-	
Glycerol	12600 mg/kg (Rat)	21900 mg/kg (Rat)	570 mg/m ³ (Rat) 1 h	
Additives	1020 mg/kg (Rat)	-	-	



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Chronic Toxicity

Chronic Toxicity : Prolonged exposure may cause chronic effects. May cause adverse

kidney effects. Contains materials which based on animal tests may cause adverse reproductive and birth effects at maternally toxic levels. May cause adverse kidney effects. Contains a known or

suspected mutagen.

Sensitization : May cause sensitization by skin contact.

Target Organ Effects : Kidney and reproductive system.

12. Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name			
Propylene glycol Toxicity to Algae		= 19000 mg/L: EC50 96 h (Pseudokirchneriella subcapitata)	
	Toxicity to Fish	41 - 47 mL/L: LC50 96 h static (Oncorhynchus mykiss)	
		= 51400 mg/L: LC50 96 h static (Pimephales promelas)	
		= 51600 mg/L: LC50 96 h static (Oncorhynchus mykiss)	
		= 710 mg/L: LC50 96 h (Pimephales promelas)	
	Toxicity to	ty to $EC50 = 710 \text{ mg/L } 30 \text{ min}$	
	Microorganisms	ns	
	Daphnia Magna	> 1000 mg/L: EC50 48 h Static (Daphnia magna)	
	(Water Flea)	> 10000 mg/L: EC50 24 h (Daphnia magna)	
Glycerol	Toxicity to Fish	LC50: 51-57 ml/L Oncorhynchus mykiss 96 h static	
	Daphnia Magna	EC50: >500 mg/L Daphnia magna 24 h	
	(Water Flea)		

Chemical Name	Log Pow
Glycerol	-1.76
Additives	1.3



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13. Disposal Considerations

Waste Disposal Methods : This material, as supplied, is not a hazardous waste according to

Federal regulations (40 CFR 261). This material could become a

hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or

if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste.

Consult the appropriate state, regional, or local regulations for

additional requirements.

Contaminated Packaging : Do not re-use empty containers.

14. Transport Information

DOT : Not regulated
TDG : Not regulated
MEX : Not regulated
ICAO : Not regulated

IATA : Not regulated IMDG/IMO : Not regulated RID : Not regulated ADR : Not regulated ADN : Not regulated Not regulated ADN : Not regulated

UN No.: Not regulated

15. Regulatory Information

International Inventories

TSCA : All components are listed on the TSCA Inventory.

DSL : Additives Does not comply

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



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U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazard Categories

Acute Health Hazard : No
Chronic Health Hazard : Yes
Fire Hazard : No
Sudden Release of Pressure Hazard : No
Reactive Hazard : No

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).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

U.S. State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Propylene glycol	X	-	X	-	X
Glycerol	X	X	X	-	X

International Regulations



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Canada : This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class : D2A Very toxic materials



16. Other Information

General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Revision history

Version	Date	Content
1.0	Sep 24, 2012	First issue.