

# 1. Identification

Product Name	: Dye Sublimation Ink Sb210 Light Cyan	
Order No.	: SPC-0700LC	
Ink Ver.	:1	
General Use	: Ink jet printing ink	
Product Description	: Dye Sublimation Ink	
SDS Number	: 037-W184791	
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 NE , suite A, Suwanee, Georgia 30024,	
	U.S.A.	
Telephone No.	: +1-678-730-0170	
Emergency Telephone No.	: +81-268-64-2281	

# 2. Hazards Identification

[HCS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Skin Corrosion / Irritation	: Category 2
Eye Damage / Irritation	: Category 2
Specific Target Organ Toxicity	: Category 1 (Central nervous system, blood system,
(Single Exposure)	kidney)
	Category 3
Environmental Hazards	
Hazardous to the Aquatic	Category 3
Environment - Acute Hazard	

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

[HCS Label Elements]



Symbol



Signal Word Danger

Hazard Statements H315 Cause skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation. H336 May cause drowsiness and dizziness. H370 Causes damage to organs (Central nervous system, blood system, kidney) H402 Harmful to aquatic life **Precautionary Statements** [Prevention] P260 Do not breathe gas/mist. P264 Wash hands and eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. 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. 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. P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor. 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 it 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).

Health = 2

NFPA Rating (scale 0 - 4)

Health = 2Flammability = 1Instability = 0Special =



HMIS Rating (scale 0 - 4)

Health Flammability=11 Flammability Reactivity = 0 $\bigcirc$ Reactivity Protective Equipment = -Protective Equipment

(2)



# CANADIAN WHMIS SYMBOLS : D2A, D2B



## 3. Composition / Information on Ingredients

Miz	xture		
No	Chemical Name	Wt%	CAS No.
1	Ethylene glycol	40-60	107-21-1
2	Water	20-50	7732-18-5
3	Diglycerol	1-20	59113-36-9
4	Propylene glycol	1-10	57-55-6
5	Disperse dye	1-10	Trade Secret
6	Additives	<10	Trade Secret

#### 4. First Aid Measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call
	a POISON CENTER or doctor/physician.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing. If eye irritation
	persists, get medical advice/attention.
Skin Contact	<sup>:</sup> Wash with plenty of soap and water. Take off contaminated clothing
	and wash before re-use. If skin irritation or rash occurs: Get medical
	advice/attention. Contaminated clothing should be removed and
	laundered before reuse.
Ingestion	: If swallowed, get medical attention. Rinse mouth.
Most Important	$\div$ skin irritation, eye irritation, respiratory irritation, drowsiness and
Symptoms/Effects	dizziness, central nervous system damage, blood system damage,
	kidney damage
Indication of Immediate	: Treat symptomatically and supportively.
Medical Attention and	
Special Treatment	
Needed, If Needed	



# 5. Fire Fighting Measures

Flammable Properties	: Not flammable
Extinguishing Media	: water spray, carbon dioxide, dry chemical powder, foam
Unsuitable Extinguishing	: Do not scatter spilled material with high-pressure water streams.
Media	
Special Hazards Arising	: Negligible fire hazard.
from the Chemical	
Hazardous Combustion	: Smoke, toxic or irritating fumes and particulates.
Products	
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.
Special Protective	: Wear full protective fire fighting gear including self contained
Equipment and	breathing apparatus (SCBA) for protection against possible exposure.
Precautions for	
Firefighters	

# 6. Accidental Release Measures

Personal Precautions,	: Wear personal protective clothing and equipment, see Section 8.
Protective Equipment	
and Emergency	
Procedures	
Methods and Materials	Avoid heat, flames, sparks and other sources of ignition. Stop leak if
for Containment and	possible without personal risk. Reduce vapors with water spray.
Cleaning Up	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.
Environmental	Avoid release to the environment. Collect spillage.
Precautions	



### Product Name: Dye Sublimation Ink Sb210 Light Cyan SDS No. 037-W184791 First issue: 2010/12/24 Revised: 2019/05/13

# Safety Data Sheets

# 7. Handling and Storage

Precautions for Safe	: Handle in accordance with good industrial hygiene and safety
Handling	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.
Conditions for Safe	Store and handle in accordance with all current regulations and
Storage, including any	standards. Keep container tightly closed. Store in a well-ventilated
Incompatibilities	area. Keep cool, Avoid direct sunlight. Keep separated from
	incompatible substances.
Incompatible Materials	: Strong oxidants, strong bases and strong acids.

#### 8. Exposure Controls / Personal Protection

#### Exposure Limit Values

No	Chemical Name	ACGIH TLV	OSHA PEL
1	1 Ethylene glycol	Ceiling: 100 mg/m3 aerosol only	Ceiling: 50ppm (vacated)
	Ethylene grycor		Ceiling: 125 mg/m3 (vacated)

Component Biological: There are no biological limit values for any of this product'sLimit Valuescomponents.

**Exposure Controls** 

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system.

Engineering Controls Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Respiratory Protection : Consult with a health and safety professional for specific respirators appropriate for your use.



: Wear appropriate chemical resistant gloves.

Recommendations

# **MIMCIKI** Safety Data Sheets



: Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection



: Wear appropriate chemical resistant clothing.

# 9. Physical and Chemical Properties

Appearance - Physical State	: liquid	
- Color	: Cyana	
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	: Not flammable	
Auto ignition temperature	: No information available.	
Flammability Limits in Air	: No information available.	
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	
Partition Coefficient (n-octanol / Water)	: No information available.	
Viscosity	: 9-11mPa.s (25 degree C)	
Vapor Density	: No data available	
Evaporation Rate	: No information available.	
VOC	: 60-80	



# 10. Stability and Reactivity

Reactivity	: No reactivity hazard is expected.
Chemical Stability	: Stable under normal conditions of use.
Possibility of Hazardous	: Will not polymerize.
Reactions	
Conditions to Avoid	Avoid flames, sparks, and other sources of ignition. Avoid contact
	with incompatible materials.
Incompatible Materials	: Strong oxidants, strong bases and strong acids.
Hazardous	: Smoke, toxic or irritating fumes and particulates.
Decomposition	

# 11. Toxicological Information

Acute Toxicity	: As a product
	Oral (rat) : LD50 > 2000 mg/kg
	Skin (rat or rabbit) : LD50 > 2000mg/kg
Skin Corrosion /	Cause skin irritation
Irritation	
Eye Damage / Irritation	Causes serious eye irritation
Sensitization –	: No information available for the product.
Respiratory	
Sensitization – Skin	: No information available for the product.
Germ Cell Mutagenicity	: No information available for the product.
Carcinogenicity	: No information available for the product.
Toxic to Reproduction	: No information available for the product.
Specific Target Organ	: May cause respiratory irritation. May cause drowsiness and dizziness.
Toxicity (single	Causes damage to organs (Central nervous system, blood system,
Exposure)	kidney)
Specific Target Organ	: No target organs identified.
Toxicity (Repeated	
Exposure)	
Aspiration Hazard	: Not expected to be an aspiration hazard.
Medical Conditions	: No information available for the product.
Aggravated by Exposure	



#### 12. Ecological Information

Safety Data Sheets

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	: Harmful to aquatic life
	Hazardous to the Aquatic Environment - Acute Hazard, Category 3
Component Analysis -	: Ethylene glycol: Fish Rainbow trout LC50 47000µg / L / 96H
Aquatic Toxicity	
Persistence and	: No information available for the product.
Degradability	
Bioaccumulation	: No information available for the product.
Mobility	: No information available for the product.
Other Toxicity	: No information available for the product.

#### 13. Disposal Considerations

Disposal Methods	: Comply with all USA, national and local regulations. <u>Do not dump this product into sewers, on the ground or into any body</u>
Dianagal of	of water. : Empty containers may contain product residue. Dispose in
Disposal of Contaminated	accordance with all applicable regulations.
Packaging	

#### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

US DOT Information	$\div$ Not regulated as a hazardous material for transport.
TDG Information	: Not regulated as dangerous goods for transport.
IATA Information	: Not regulated as dangerous goods for transport.
ICAO Information	: Not regulated as dangerous goods for transport.
IMDG Information	: Not regulated as dangerous goods for transport.
Marine Pollutant	: Not regulated as dangerous goods for transport.

#### 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		

#### 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:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylene glycol	107-21-1	40-60	1.0
SARA 311/312 Hazard Categories			
Acute Health Hazard		:Yes	
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):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous	RQ
		Substances RQs	
Ethylene glycol	5000 lb		RQ 5000 lb final RQ
			RQ 2270 kg final RQ

U.S. State Regulations



California Proposition 65

# WARNING:



This product can expose you to chemicals including Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Ethylene glycol	Х	Х	Х	Х	Х
Propylene glycol	Х	-	Х	-	Х

#### **International Regulations**

Chemical Name	Carcinogen Status	Exposure Limits
Ethylene glycol		Mexico: Ceiling= 100 mg/m <sup>3</sup>
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.	

Chemical Name	NPRI
Ethylene glycol	X

Legend

NPRI - National Pollutant Release Inventory

## 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.

It relates only to the specific material designated herein, and does 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.