

Safety Data Sheets

1. Identification

Declark News	D C LL CL CL CL CL CL CL CL CL CL
Product Name	: Dye Sublimation Ink Sb54 Magenta T
Order No.	: SB54-MT-44/ SB54-MT-2L
Ink Ver	: 3
General Use	: Ink jet printing ink
Product Description	: Dye Sublimation Ink
SDS Number	: 037-W360365
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 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.	: +1 866 928 0789 (within United States only, Toll free)
	$+1\ 215\ 207\ 0061$

2. Hazards Identification

[GHS Classification]	
Physical Hazards Flammable Liquids	: Not classified
Health Hazards	
Eye Damage / Irritation	Category 2
Sensitization – Skin	: Category 1

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

[GHS Label Elements] Symbol





Signal Word Warning Hazard Statements H317 May cause an allergic skin reaction H319 Causes serious eye irritation **Precautionary Statements** [Prevention] P261 Avoid breathing gas/mist/vapors. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. 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. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. [Disposal] P501 Dispose of contents/container in accordance with local/regional/national/ international regulation (to be specified).

NFPA Rating (scale 0 - 4)

Health = 2

Flammability = 1

Instability = 0 Special =



CANADIAN WHMIS SYMBOLS

D2B



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Propylene glycol	10-20	57-55-6
2	Glycerin	5-15	56-81-5
3	Dye	1-10	Trade Secret
4	Water	55-65	7732-18-5
5	Other	<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	: Flush eyes with plenty of water for at least 15 minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	Get immediate medical attention.
Skin Contact	: 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.
Ingestion	: If swallowed, get medical attention.
Most Important Symptom	s/Effects
Acute	allergic skin reaction, mild skin irritation, eye irritation
Delayed	allergic skin reaction
Indication of Immediate	: Treat symptomatically and supportively.
Medical Attention and	
Special Treatment	
Needed, If Needed	

5. Fire Fighting Measures

Flammable Properties	: Flash point Not flammable
Extinguishing Media	carbon dioxide, regular dry chemical, water spray, alcohol resistant
	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	: oxides of carbon, acrolein, oxides of sulfur
Products	
Fire Fighting	: Move container from fire area if it can be done without risk. Do not
Measures	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.

Mimciki Safety Data Sheets

Special Protective	: Wear full protective fire fighting gear including self contained
Equipment and	breathing apparatus (SCBA) for protection against possible
Precautions for	exposure.
Firefighters	

6. Accidental Release Measures

Personal Precautions,	: Wear personal protective clothing and equipment, see Section 8.
Protective Equipment	Avoid release to the environment.
and Emergency	
Procedures	
Methods and Materials	: Eliminate all ignition sources if safe to do so. Stop leak if possible
for Containment and	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.

7. Handling and Storage

Precautions for Safe	Avoid breathing gas, mist or vapors. Avoid contact with eyes, skin and
Handling	clothing. Do not eat, drink, or smoke when using this product. Wear
	protective gloves and eye/face protection. Wash thoroughly after
	handling. Contaminated work clothing should not be allowed out of
	the workplace.
Conditions for Safe	Store and handle in accordance with all current regulations and
Storage, including any	standards. Store in a well-ventilated place. Keep container tightly
Incompatibilities	closed. Keep cool. Keep separated from incompatible substances.



Safety Data Sheets

8. Exposure Controls / Personal Protection

Exposure Limit Values	: Glycerin (56-81-5)
P • • • • • • • • • • • • • • • • •	OSHA: 15 mg/m ³ TWA (mist, total particulate);
	5 mg/m ³ TWA (mist, respirable fraction)
	Mexico 10 mg/m ³ TWA LMPE-PPT (mist)
Component Biological	: There are no biological limit values for the component(s) of this
Limit Values	product.
	•
Exposure Controls	
Occupational Exposure	Controls
Appropriate	: Provide local exhaust or process enclosure ventilation system. Ensure
Engineering Controls	compliance with applicable exposure limits.
Personal Protection	
Respiratory	: Consult with a health and safety professional for specific respirators
Protection	appropriate for your use.
Vapor Respirator	
Hand Protection	: Wear appropriate chemical resistant gloves.
Gloves	
Eye Protection	: Wear splash resistant safety goggles with a faceshield. Provide an
Safety Glasses	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	: Magenta
Odor	: unique odor
pH	: 7-9
Boiling Point / Boiling Range	: Not available
Melting Point / Melting Range	: Not available
Decomposition Temperature	: Not available
Flash Point	: Not flammable
Auto ignition temperature	: Not available
Flammability (Solid, Gas)	: Not available
Explosive Properties	: Not available
Oxidizing Properties	: Not available
Upper / Lower Flammability or	: Not available
Explosive Limits	
Vapor Pressure	
Specific Gravity	: 1.0-1.2 (25 $^\circ~$ C)
Solubility	: Not available
Water Solubility	: Soluble
Partition Coefficient (n-octanol / Water)	: Not available
Viscosity	: 4-6 mPa·s (25 °C)
Vapor Density	: Not available
Evaporation Rate	: Not available

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	[:] acids, bases, oxidizing materials, metal oxides, peroxides, reducing
	agents, combustible materials, halocarbons, metals, metal salts

Mimciki[°] Safety Data Sheets

Hazardous : Combustion: oxides of carbon, acrolein, oxides of sulfur

Decomposition

11. Toxicological Information

Acute Toxicity	: The component(s) of this material have been reviewed in various
Component Analysis -	sources and the following selected endpoints are published:
LD50/LC50	Propylene glycol (57-55-6)
	Oral LD50 Rat 20 g/kg; Dermal LD50 Rabbit 20800 mg/kg
	Glycerin (56-81-5)
	Oral LD50 Rat 12600 mg/kg; Dermal LD50 Rabbit >10 g/kg;
	Inhalation LC50 Rat >570 mg/m ³ 1 h
	Dye
	Oral LD50 Rat >5 g/kg
Information on Likely Ro	-
Inhalation	: irritation, difficulty breathing, headache, nausea
Ingestion	: fever, nausea, vomiting, diarrhea, headache, dizziness, sleep
	disturbances, blood disorders, kidney damage, paralysis, reproductive
	effects, convulsions, skin disorders, stomach pain, drowsiness, loss of
	coordination, unconsciousness
Skin Contact	allergic reactions, irritation, nausea, headache, drowsiness, dizziness,
	loss of coordination
Eye Contact	irritation
Immediate Effects	allergic skin reaction, mild skin irritation, eye irritation
Delayed Effects	allergic skin reaction
Medical Conditions	: No information available for the product.
Aggravated by Exposure	
Irritation/Corrosivity	: mild skin irritation, eye irritation
Data	
Respiratory	: No information available for the product.
Sensitization	
Dermal Sensitization	: May cause an allergic skin reaction.
Germ Cell Mutagenicity	: No information available for the product.
	·····

Mimciki Safety Data Sheets

Carcinogenicity	: Component Carcinogenicity
	No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for
	the component(s) of this product.
Reproductive Toxicity	: No information available for the product.
Specific Target Organ	: No target organs identified.
Toxicity - Single	
Exposure	
Specific Target Organ	: No target organs identified.
Toxicity - Repeated	
Exposure	
Aspiration Hazard	: Not expected to be an aspiration hazard.

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.						
Component Analysis -	: Propylene glycol (57-55-6)						
Aquatic Toxicity	Fish: 96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr						
	LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static]; 96 Hr LC50						
	Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales						
	promelas: 710 mg/L						
	Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L						
	Invertebrate: 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]						
	Glycerin (56-81-5)						
	Fish: 96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static]						
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 additional information is available.						



13. Disposal Considerations

	: Comply with all USA, national and local regulations.								
	Do not dump this product into sewers, on the ground or into any body								
	of water.								
Disposal Methods	: Dispose in accordance with all applicable regulations.								
Component Waste	: The U.S. EPA has not published waste numbers for this product's								
Numbers	components.								
Disposal of	: Empty containers may contain product residue. Dispose in								
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	: 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 Pollutants	: Not regulated as dangerous goods for transport.
(IMDG)	
International Bulk	: This material does not contain any chemicals required by the IBC
Chemical Code	Code to be identified as dangerous chemicals in bulk.

15. Regulatory Information

U.S. Federal	: None of this products components are listed under SARA Sections
Regulations	302/304 (40 CFR 355 Appendix A), SARA Section $311/312$ (40 CFR
	370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR
	302.4), TSCA 12(b), or require an OSHA process safety plan.

MIMCIKI[°] Safety Data Sheets

SARA TitleIII	: Ac	ute Hea	lth: Yes	3							
Section 311/312	Chronic Health: No										
	Fi	re: No									
	Pr	essure:	No								
	Re	eactive:	No								
U.S. State Regulations	∶Tł	ne follow	ving cor	nponen	ts ap	pear	on on	e or mo	ore of th	e follow	ving
	state hazardous substances lists										
		Con	ponent	;	CA	MA	MN	NJ	PA		
		Propyl	ene gly	col	NI.	NL	V	V	V		
		(CAS N	o. 57-5	5-6)	No	No	Yes	Yes	Yes		
		Gl	ycerin		N.	Vaa	Vee	V	Vaa		
		(CAS N	o. 56-8	1-5)	No	Yes	Yes	Yes	Yes		
	: No	ot regula	ated un	der Cal	iforr	nia Pr	roposit	tion 65			
Canada WHMIS	: D2	2B.									
CLASSIFICATION											
Canadian WHMIS	: Components of this material have been checked against the										
Ingredient Disclosure	Canadian WHMIS Ingredients Disclosure List. The List is composed of										
List (IDL)	che	micals v	which n	nust be	iden	tified	on M	SDSs i	f they a	re inclu	ided in
	pro	ducts w	hich fal	l under	WH	MIS	criteri	la speci	fied in	the Cor	trolled
	\mathbf{Pro}	ducts R	egulati	ons and	pres	sent a	above	the thr	eshold	limits li	sted on
	the IDL.										
	Propylene glycol (57-55-6) 1 %										
Chemical Inventory	Component Analysis - Inventory										
Listings				1	1					1	
Component		US	CA	EU	AU	J	PHIL	JP	KR	CN	NZ

Component	US	CA	EU	AU	PHIL	$_{\rm JP}$	KR	CN	NZ
Propylene glycol (CAS No. 57-55-6)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Glycerin (CAS No. 56-81-5)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

MIMCIKI[®] Safety Data Sheets

16. Other Information

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code -International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK -Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

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.