

Safety Data Sheets

1. Identification

Product Name	: Dye Sublimation Ink Sb54 Light Blue T	
Order No.	: SB54-LBT-44/ SB54-LBT-2L	
General Use	: Ink jet printing ink	
Product Description	: Dye Sublimation Ink	
SDS Number	: 037-W360367	
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, suite A, Suwanee, Georgia 30024, U.S.A.	
Telephone No.	: +1-678-730-0100	
Emergency Telephone No.	: +81-268-64-2281	

2. Hazards Identification

[GHS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Sensitization – Skin	: Category 1

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

[GHS Label Elements] Symbol



Signal Word Warning



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Hazard Statements H317 May cause an allergic skin reaction

Precautionary Statements
[Prevention]
P261 Avoid breathing gas/mist/vapors.
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.
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.
P362+P364 Take off contaminated clothing and wash before reuse.
[Disposal]
P501 Dispose of contents/container in accordance with local/regional/national/

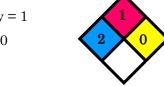
international regulation (to be specified).

NFPA Rating (scale 0 - 4)

Health = 2

Flammability = 1 Instability = 0

Special =



CANADIAN WHMIS SYMBOLS





3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Propylene glycol	30-40	57-55-6
2	Glycerin	1-5	56-81-5
3	Dye	1-10	Trade Secret
4	Water	50-60	7732-18-5
5	Other	<10	Trade Secret

4. First Aid Measures

Inhalation

: Remove person to fresh air and keep comfortable for breathing. Call

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	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 Symptoms/Effects		
Acute	allergic skin reaction, mild skin 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.
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.

8. Exposure Controls / Personal Protection

Exposure Limit Values	: Glycerin (56-81-5)
	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.



Controls
\therefore Provide local exhaust or process enclosure ventilation system. Ensure
compliance with applicable exposure limits.
\div Consult with a health and safety professional for specific respirators
appropriate for your use.
: Wear appropriate chemical resistant gloves.
: Wear splash resistant safety goggles with a faceshield. Provide an
emergency eye wash fountain and quick drench shower in the
immediate work area.
: Wear appropriate chemical resistant clothing.

9. Physical and Chemical Properties

Appearance	- Physical State	: Liquid
	- Color	: Blue
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

MIMCIKI[®] Safety Data Sheets Product Name: Dye Sublimation Ink Sb54 Light Blue T SDS No. 037-W360367 First issue: 2015/04/13 Revised:

Oxidizing Properties	: Not available
Upper / Lower Flammability or	: Not available
Explosive Limits	
Vapor Pressure	
Specific Gravity	\div 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
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

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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
Delayed Effects	allergic skin reaction
Medical Conditions	: No information available for the product.
Aggravated by Exposure	
Irritation/Corrosivity	: mild skin 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.
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.

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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.					
UN Number	: Not regulated					
Marine Pollutant	: Propylene glycol (57-55-6)					
	IBC Code: Category Z					



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15. Regulatory Information

Regulations302/304 (40 CFR 355 Appendix A), SARA Section 311/312 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 302.4), TSCA 12(b), or require an OSHA process safety plSARA TitleIII: Acute Health: YesSection 311/312Chronic Health: No Fire: No Pressure: No Reactive: NoU.S. State Regulations: The following components appear on one or more of the for state hazardous substances listsComponentCAComponentCAMAMNNJPA Propylene glycolPropylene glycolNoNoYesYesYes	40 CFR								
302.4), TSCA 12(b), or require an OSHA process safety pl SARA TitleIII : Acute Health: Yes Section 311/312 Chronic Health: No Fire: No Pressure: No Reactive: No V.S. State Regulations U.S. State Regulations : The following components appear on one or more of the forstate hazardous substances lists Component CA MA MN Propylene glycol Image: No									
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Propylene glycol No No Voc Voc									
(CAS No. 57-55-6) NO NO IES IES IES									
Glycerin N W W W									
(CAS No. 56-81-5) No Yes Yes Yes Yes									
: Not regulated under California Proposition 65	Not regulated under California Proposition 65								
Canada WHMIS : D2B.	: D2B.								
CLASSIFICATION									
Canadian WHMIS : Components of this material have been checked against t	: Components of this material have been checked against the								
Ingredient Disclosure Canadian WHMIS Ingredients Disclosure List. The List is	Canadian WHMIS Ingredients Disclosure List. The List is composed of								
List (IDL) chemicals which must be identified on MSDSs if they are i	included in								
products which fall under WHMIS criteria specified in the	products which fall under WHMIS criteria specified in the Controlled								
Products Regulations and present above the threshold lim	Products Regulations and present above the threshold limits listed on								
the IDL.	the IDL.								
Propylene glycol (57-55-6) 1 %	Propylene glycol (57-55-6) 1 %								
Chemical Inventory : Component Analysis - Inventory									
Listings									

Component	US	CA	EU	AU	PHIL	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

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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

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