

**\*\*\*Section 1 - IDENTIFICATION\*\*\*****Product Identifier: Dye Sublimation Ink Sb54 Black T****Product Description**

SB54-KT-44-5 / SB54-KT-2L-5

**Product Use**

Ink jet ink

**Restrictions on Use**

None known.

**Manufacturer Information**Mimaki Engineering Co., Ltd  
2182-3 Shigeno-otsu, Tomi-shi, Nagano  
389-0512 Japan

Telephone number: +81-268-64-2413

**Importer / Distributor Information**MIMAKI SINGAPORE PTE. LTD.  
31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

Telephone number: +65-6508-2789

**Emergency telephone number**+65 3165 2217 (within Singapore only)  
+65 3158 1074**\*\*\*Section 2 - HAZARDS IDENTIFICATION\*\*\*****SPRING/SS 586-2:2014**Serious Eye Damage/Eye Irritation, Category 2A  
Skin sensitizer, Category 1**LABEL ELEMENTS****Symbol(s)****Signal Word**

WARNING

**Hazard Statement(s)****H319** Causes serious eye irritation.  
**H317** May cause an allergic skin reaction.**Precautionary Statement(s)****Prevention****P261** Avoid breathing dust/fume/gas/mist/vapours/spray.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P264** Wash thoroughly after handling.

**P272** Contaminated work clothing should not be allowed out of the workplace.

### Response

**P302+P352** IF ON SKIN: Wash with plenty of soap and water.

**P333+P313** If skin irritation or rash occurs: Get medical advice/attention.

**P363** Wash contaminated clothing before reuse.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

### Storage

None needed according to classification criteria.

### Disposal

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other Hazards Which Do Not Result in Classification

None known.

## \*\*\*Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS\*\*\*

CAS	Component	Percent
7732-18-5	Water	55-65
57-55-6	1,2-Propylene glycol	10-20
Trade Secret	Other	<10
56-81-5	Glycerin	5-15
Trade Secret	Painting material	1-10
Not Available	Preservative	<0.5

## \*\*\*Section 4 - FIRST AID MEASURES\*\*\*

### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

### Skin

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.

### Eyes

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.

### Ingestion

If swallowed, get medical attention.

### Note to Physicians

Treat symptomatically and supportively.

### Symptoms: Immediate

allergic skin reaction, mild skin irritation, eye irritation

### Symptoms: Delayed

allergic skin reaction

## \*\*\*Section 5 - FIRE FIGHTING MEASURES\*\*\*

### Flammable Properties

Negligible fire hazard.

**Extinguishing Media**

carbon dioxide, regular dry chemical, water spray, alcohol resistant foam

**Unsuitable Extinguishing Media**

Do not scatter spilled material with high-pressure water streams.

**Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

**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.

**Hazardous Combustion Products**

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

**\*\*\*Section 6 - ACCIDENTAL RELEASE MEASURES\*\*\*****Personal Precautions**

Wear personal protective clothing and equipment, see Section 8.

**Environmental Precautions**

Avoid release to the environment.

**Methods for Containment**

Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray.

**Cleanup Methods**

**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.

**\*\*\*Section 7 - HANDLING AND STORAGE\*\*\*****Precautions for Safe Handling**

Avoid breathing dust, mist, fumes or vapors. Avoid contact with eyes, skin and 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 Storage**

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep separated from incompatible substances.

**Incompatibilities:** acids, bases, oxidizing materials, metal oxides, peroxides, reducing agents, combustible materials, halocarbons, metals, metal salts

**\*\*\*Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\*\*\*****Component Exposure Limits****Glycerin (56-81-5)**

**Singapore:** 10 mg/m<sup>3</sup> PEL (mist)

**Biological exposure limits**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

## PERSONAL PROTECTIVE EQUIPMENT

### Eyes/Face

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

### Protective Clothing

Wear appropriate chemical resistant clothing.

### Glove Recommendations

Wear appropriate chemical resistant gloves.

### Respiratory Protection

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

## \*\*\*Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\*\*\*

<b>Physical State:</b>	Liquid	<b>Appearance:</b>	black liquid
<b>Color:</b>	black	<b>Physical Form:</b>	liquid
<b>Odor:</b>	characteristic odor	<b>Odor Threshold:</b>	Not available
<b>pH:</b>	7-9	<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	Not available	<b>Flash Point:</b>	Not flammable
<b>Decomposition Temperature:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>LEL:</b>	Not available	<b>UEL:</b>	Not available
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density (air = 1):</b>	Not available
<b>Density:</b>	Not available	<b>Specific Gravity (water = 1):</b>	1-1.2 (25 °C)
<b>Water Solubility:</b>	Easily soluble	<b>Log KOW:</b>	Not available
<b>Coeff. Water/Oil Dist:</b>	Not available	<b>Auto Ignition Temperature:</b>	Not available
<b>Viscosity:</b>	4-6 mPas (25 °C)	<b>Volatility:</b>	Not available
<b>Oxidizing Properties:</b>	Not available	<b>Explosive Properties:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable		

## Other Property Information

No additional information is available.

## \*\*\*Section 10 - STABILITY AND REACTIVITY\*\*\*

### Reactivity

No reactivity hazard is expected.

### Chemical Stability

Stable under normal conditions of use.

### Possibility of Hazardous Reactions

Will not polymerize.

### Conditions to Avoid

Avoid flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.

### Materials to Avoid (Incompatibilities)

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

## Hazardous Decomposition:

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

## \* \* \*Section 11 - TOXICOLOGICAL INFORMATION\* \* \*

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The component(s) of this material have been reviewed in various sources and the following selected endpoints are published:

#### **1,2-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<sup>3</sup> 1 h

### Immediate Effects

allergic skin reaction, mild skin irritation, eye irritation

### Delayed Effects

allergic skin reaction

### Irritation/Corrosivity Data

mild skin irritation, eye irritation

### Respiratory Sensitizer

No information available for the product.

### Dermal Sensitizer

May cause an allergic skin reaction.

### Carcinogenicity

#### Component Carcinogenicity

No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for the component(s) of this product.

### Mutagenic Data

No information available for the product.

### Reproductive Effects Data

No information available for the product.

### Specific Target Organ Toxicity - Single Exposure

No target organs identified.

### Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

### Aspiration Hazard

Not expected to be an aspiration hazard.

### Medical Conditions Aggravated by Exposure

No information available for the product.

## \* \* \*Section 12 - ECOLOGICAL INFORMATION\* \* \*

### Ecotoxicity

#### Component Analysis - Aquatic Toxicity

#### **1,2-Propylene glycol (57-55-6)**

**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

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**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]

**Bioaccumulation**

No information available for the product.

**Bioconcentration**

No information available for the product.

**Biodegradation**

No information available for the product.

**Persistence**

No information available for the product.

**Mobility**

No information available for the product.

**Other Information**

No additional information is available.

**\*\*\*Section 13 - DISPOSAL CONSIDERATIONS\*\*\***

**Disposal Methods**

Dispose in accordance with all applicable regulations.

**Component Waste Information**

There is no applicable waste information for this product's components.

**\*\*\*Section 14 - TRANSPORT INFORMATION\*\*\***

**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**

**1,2-Propylene glycol (57-55-6)**

**IBC Code:** Category Z

**\*\*\*Section 15 - REGULATORY INFORMATION\*\*\***

**Singapore Regulations**

**Component Analysis**

No information was found for the substance(s) in Singapore regulations.

**Component Analysis - Inventory**

Component	CAS	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Water	7732-18-5	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
1,2-Propylene glycol	57-55-6	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Glycerin	56-81-5	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

**\*\*\*Section 16 - OTHER INFORMATION\*\*\***

**Key / Legend**

## Safety Data Sheets

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; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; 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

### Disclaimer

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.

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