Telephone number: +81-268-64-2413

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## \* \* \*Section 1 - IDENTIFICATION\* \* \*

# Product Identifier: Dye Sublimation Ink Sb411 Light Black T

**Product Description** 

SB411-LKT-2L

**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

## **Importer / Distributor Information**

MIMAKI SINGAPORE PTE. LTD. Telephone number: +65-6508-2789
31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

## **Emergency telephone number**

+65 3165 2217 (within Singapore only) +65 3158 1074

## \* \* \*Section 2 - HAZARDS IDENTIFICATION\* \* \*

## SPRING/SS 586-2:2014

Skin sensitizer, Category 1

# LABEL ELEMENTS

Symbol(s)



## Signal Word

WARNING

### **Hazard Statement(s)**

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.

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.

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

P363 Wash contaminated clothing before reuse.

#### 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	50-65
57-55-6	1,2-Propylene glycol	20-40
Trade Secret	Other	<10
56-81-5	Glycerin	1-10
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

## 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



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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/m3 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.

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#### **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\* \* \*

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



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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/m3 1 h

**Immediate Effects** 

allergic skin reaction, mild skin irritation

**Delayed Effects** 

allergic skin reaction

Irritation/Corrosivity Data

mild skin 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

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.



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## **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

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 -



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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.