

# Safety Data Sheets

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

Dye Sublimation Ink Sb411 Light Magenta T

**Product Description**

SB411-LMT-2L-2

**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 AUSTRALIA PTY LTD.

Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia

Telephone number: + 61-2-8036-4500

**Emergency telephone number**

+61 2 8014 4558 (within Australia only)

18000 74234 (within Australia only)

+65 3158 1074

## Section 2 - HAZARDS IDENTIFICATION

Classified to Globally Harmonised System of Classification and Labelling of Chemicals, Third revised edition, published by the United Nations as modified under Schedule 6 of the Work Health and Safety Regulation.

**GHS Classification**

Skin Sensitization - Category 1A

**GHS Label Elements****Symbol(s)****Signal Word**

Warning

**Hazard Statement(s)**

May cause allergic skin reaction.

**Precautionary Statement(s)****Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

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

**Response**

IF ON SKIN: Wash with plenty of soap and water.

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

Wash contaminated clothing before reuse.

**Storage**

None needed according to classification criteria.

**Disposal**



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

### Potential Environmental Effects

None known.

### Other Hazards Which Do Not Result in Classification

None known.

### Main Symptoms and Emergency Overview

May cause allergic skin reaction.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
57-55-6	1,2-Propylene glycol	20-30
Trade Secret	Painting material	1-10
Trade Secret	Other	<10
56-81-5	Glycerin	5-15
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.

### Most Important Symptoms/Effects

#### Symptoms: Immediate

May cause allergic skin reactions, mild skin irritation

#### Symptoms: Delayed

May cause allergic skin reactions

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable 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.

### Special Hazards Arising from the Chemical

Negligible fire hazard.

### Hazardous Combustion Products

oxides of carbon, acrolein, oxides of sulfur

### Special 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

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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.

**Hazchem/Emergency Action Code**

No data available

## Section 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Environmental Precautions**

Avoid release to the environment.

**Methods and Materials for Containment and Cleaning Up**

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

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 suitable protective gloves and eye/face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Conditions for Safe Storage, Including any Incompatibilities**

None needed according to classification criteria.

Further information on storage conditions: Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep container tightly closed. Keep cool. Keep separated from incompatible substances.

**Incompatible Materials**

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

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Component Exposure Limits**

<b>1,2-Propylene glycol</b>	<b>57-55-6</b>
Safe Work Australia.	150 ppm TWA total vapour and particulates ; 474 mg/m3 TWA total vapour and particulates ; 10 mg/m3 TWA particulates only
<b>Glycerin</b>	<b>56-81-5</b>
Safe Work Australia.	10 mg/m3 TWA (containing no asbestos and <1% crystalline silica ) inhalable dust, mist

**EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures**

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.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

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.

**Respiratory Protection**

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

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## Glove Recommendations

Wear appropriate chemical resistant gloves.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	red liquid	<b>Physical State</b>	liquid
<b>Odor</b>	characteristic odor	<b>Color</b>	red
<b>Odor Threshold</b>	Not available	<b>pH</b>	7 - 9
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	(Not flammable )
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	1 - 1.2 (25 °C )
<b>Water Solubility</b>	(Easily soluble )	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	4 - 6 mPa-s (25 °C )	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Physical Form</b>	liquid
<b>Molecular Weight</b>	Not 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.

### Incompatible Materials

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

### Hazardous decomposition products

oxides of carbon, acrolein, oxides of sulfur

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

irritation

#### Skin Contact

irritation, allergic reactions

#### Eye Contact

irritation

#### Ingestion

irritation, nausea, vomiting, stomach pain

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components 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)



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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**

May cause allergic skin reactions, mild skin irritation

**Delayed Effects**

May cause allergic skin reactions

**Irritation/Corrosivity Data**

mild skin irritation

**Respiratory Sensitization**

No information available for the product.

**Dermal Sensitization**

May cause an allergic skin reaction.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No information available for the product.

**Reproductive Toxicity**

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.

<b>Section 12 - ECOLOGICAL INFORMATION</b>
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**Component Analysis - Aquatic Toxicity**

<b>1,2-Propylene glycol</b>	<b>57-55-6</b>
Fish:	LC50 96 h Oncorhynchus mykiss 51600 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 41 - 47 mL/L [static ]; LC50 96 h Pimephales promelas 51400 mg/L [static ]; LC50 96 h Pimephales promelas 710 mg/L
Algae:	EC50 96 h Pseudokirchneriella subcapitata 19000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L [Static ] EPA
<b>Glycerin</b>	<b>56-81-5</b>
Fish:	LC50 96 h Oncorhynchus mykiss 51 - 57 mL/L [static ]

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility in soil**

No information available for the product.

**Other adverse effects**

No data available

<b>Section 13 - DISPOSAL CONSIDERATIONS</b>
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**Disposal Methods**

Dispose in accordance with all applicable regulations. Empty containers may contain product residue.

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### Section 14 - TRANSPORT INFORMATION

**ADG Information:**

No Classification assigned.

**IATA Information:**

No Classification assigned.

**ICAO Information:**

No Classification assigned.

**IMDG Information:**

No Classification assigned.

**Component Marine Pollutants (IMDG)**

Not regulated as dangerous goods.

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>1,2-Propylene glycol</b>	<b>57-55-6</b>
IBC Code:	Category Z

**Transportation Special Precautions**

No information available.

**Hazchem/Emergency Action Code**

No data available

### Section 15 - REGULATORY INFORMATION

**Australia Regulations**
**Work Health and Safety Regulations - Prohibited Carcinogens**

No component(s) are listed on the Prohibited Carcinogens list.

**Work Health and Safety Regulations - Restricted Carcinogens**

No component(s) are listed on the Restricted Carcinogens list.

**Work Health and Safety Regulations - Restricted Hazardous Chemicals**

No component(s) are listed on the Restricted Hazardous Chemicals list.

**Australia Work Health and Safety Regulations - Hazardous Chemicals Requiring Health Monitoring**

None of this product's components are on the list.

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

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

**Glycerin (56-81-5)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

### Section 16 - OTHER INFORMATION

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche



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Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL – Korea Existing Chemicals List; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

### Other Information

#### 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.