Safety Data Sheets

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
Dye Sublimation Ink Sb411 Light Blue T
Product Description
SB411-LBT-2L−3
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
Specific Target Organ Toxicity (Single Exposure) - Category 1 (central nervous system, blood system)
- Category 3 (narcotic effect)
Specific Target Organ Toxicity (Repeated Exposure) - Category 1 (central nervous system, respiratory system)

GHS Label Elements
Symbol(s)



Signal Word
Danger
Hazard Statement(s)
May cause drowsiness or dizziness
Causes damage to organs (central nervous system, blood system)
Causes damage to organs through prolonged or repeated exposure (central nervous system, respiratory system)
Precautionary Statement(s)
Prevention
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Do no eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Response
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

Store in a well ventilated place. Keep container tightly closed.
Store locked up.

Disposal

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

Other hazards

None known.

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

central nervous system disorders, blood system disorders, drowsiness or dizziness

Symptoms: Delayed

central nervous system disorders, respiratory system disorders

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

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

1,2-Propylene glycol	**57-55-6**
Safe Work Australia.	150 ppm TWA total vapour and particulates ; 474 mg/m3 TWA total vapour and particulates ; 10 mg/m3 TWA particulates only
Glycerin	**56-81-5**
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.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

Oral LD50 Rat 12600 mg/kg
Dermal LD50 Rabbit >10 g/kg
Inhalation LC50 Rat >570 mg/m3 1 h

Immediate Effects
central nervous system disorders, blood system disorders, drowsiness, dizziness,

Delayed Effects
central nervous system disorders, respiratory system disorders

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
central nervous system disorders, blood system disorders, drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure
central nervous system disorders, respiratory system disorders

Aspiration hazard
Not expected to be an aspiration hazard.

Medical Conditions Aggravated by Exposure
No information available for the product.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

1,2-Propylene glycol	**57-55-6**
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
Glycerin	**56-81-5**
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

Section 13 - DISPOSAL CONSIDERATIONS

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

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.

1,2-Propylene glycol	**57-55-6**
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 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.