

# Safety Data Sheet

## 1. IDENTIFICATION

Product Identifier	Sb420 Yellow D
Product code	SB420-YD-2L / SB420-YD-BJ
Recommended use and restriction use	INK JET ink
Supplier name	MIMAKI ENGINEERING CO., LTD.
Address	2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone number	+81-268-64-2413
Importer / Distributor name	MIMAKI SINGAPORE PTE. LTD.
Address	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

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

Health hazards	Specific target organ toxicity (single exposure) Category 1 (blood central nervous system) Specific target organ toxicity (single exposure) Category 3 (narcotic effect) Specific target organ toxicity (repeated exposure) Category 1 (respiratory apparatus central nervous system)
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### GHS LABEL ELEMENTS

#### Pictograms



Signal Word	Danger
Hazard Statements	H336 May cause drowsiness or dizziness H370 Causes damage to organs(blood,central nervous system) H372 Causes damage to organs(respiratory apparatus,central nervous system) through prolonged or repeated exposure
Precautionary Statements	
Prevention	Do not breathe mist, vapours and spray.(P260) Wash thoroughly after handling.(P264) Do not eat, drink or smoke when using this product(P270) Use only outdoors or in a well-ventilated area(P271)
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340) IF exposed or concerned: Call a POISON CENTER/doctor(P308+P311) Get medical advice/attention if you feel unwell(P314)
Storage	Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

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Disposal

Store locked up(P405)

Dispose of waste in accordance with local, state and federal regulations.(P501)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures

Mixtures

Chemical name	Contents	Chemical Formula	CAS RN
Water	55-65%	H2O	7732-18-5
1,2-Propanediol	15-25%	C3H8O2	57-55-6
Glycerol	5-15%	C3H8O3	56-81-5
Dye	1-10%	Confidential	Confidential
Other	10-20%	Confidential	Confidential

## 4. FIRST-AID MEASURES

In case of inhalation

Call a doctor if you feel unwell.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

In case of skin contact

IF exposed or concerned: Call a doctor.

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

If skin irritation occurs: Get medical advice and attention.

IF exposed or concerned: Call a doctor.

In case of eye contact

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

IF exposed or concerned: Call a doctor.

In case of ingestion

Rinse mouth.

IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Call a doctor.

## 5. FIRE-FIGHTING MEASURES

Suitable fire-extinguishing media

Use extinguishing agent suitable for type of surrounding fire.

Specific hazards arising from the chemical

Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.

Special protective actions for fire fighters

Use goggles in combination with dust mask, and another protections as appropriate to situation.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use goggles in combination with dust mask, and another protections as appropriate to situation.

Large spills :Evacuate area.

Ensure adequate ventilation.

Environmental precautions

Do not discharge into the drains, surface waters or ground water directly.

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Methods and materials for containment and cleaning up

Large spills: Dike spills and dispose of in safe area.

small spill : absorb with material such as non-combustible material wash thoroughly after handling

Cautiously neutralize with dilute acid if necessary

When neutralizing, be cautious of heating and fuming.

Prevention Measures for Secondary Accidents

Keep away from sources of ignition and prepare extinguishing media.

Risk of slipping. Spilled material forms slippery floor.

Do not recklessly walk on the spillage.

## 7. HANDLING AND STORAGE

Handling

Technical measures

Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Safe handling advice

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Do not breathe dust/fume/gas/mist/vapours/spray.

Storage

Suitable storage conditions

Store locked up.

Store container tightly closed in well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH (TLV)	OSHA (PEL)	Workplace Safety And Health (General Provisions) Regulations
Glycerol	Not established	15 mg/m <sup>3</sup> TWA (mist, total particulate); 5 mg/m <sup>3</sup> TWA (mist, respirable fraction)	10 mg/m <sup>3</sup> PEL (mist)

Engineering measures

Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Individual protection measures

Respiratory protection

If necessary, wear respiratory protection.

Hand protection

If necessary, wear protective gloves.

Eye protection

If necessary, wear protective eye protection.

Skin and body protection

If necessary, wear protective clothing.

Hygiene measures

Wash hand thoroughly after handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	Yellow
Odor	Unique odor
Odor threshold	No data available
pH	7-9
Melting point	No data available
Boiling point	No data available
Flash point	Not ignited
Evaporation rate	No data available
Flammability(Solid,Gas)	Non combustible
Flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1-1.2 g/cm <sup>3</sup>
Solubility(ies)	Water soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Non combustible
Decomposition temperature	No data available
Viscosity	4-6 mPas(25°C)

## 10. STABILITY AND REACTIVITY

Reactivity	No information available
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	Stable under normal conditions of use.
Conditions to avoid	Contact with naked flames, sparks, all other ignition sources, and contraindicated substances
Incompatible materials	Acids, bases, oxidizing substances, metal oxides, peroxides, reducing agents, flammable substances, halocarbons, metals, metal salts
Hazardous decomposition products	Combustion produces carbon monoxide, carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)	Classification not possible.
Acute toxicity (Dermal)	Classification not possible.
Acute toxicity (Inhalation : Gases)	Does not fall under gas based on GHS definitions.
Acute toxicity (Inhalation : Vapours)	Classification not possible.
Acute toxicity (Inhalation : dust/mist)	Classification not possible.
Skin corrosion/ Irritation	Classification not possible.
Serious eye damage/ irritation	Classification not possible.
Respiratory Sensitization	Classification not possible.
Skin Sensitization	Classification not possible.

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Germ cell mutagenicity	Classification not possible.
Carcinogenicity	Classification not possible.
Reproductive toxicity	Classification not possible.
Reproductive toxicity, effects on or via lactation	Unable to classify due to insufficient data.
Specific target organ Toxicity – Single Exposure	<p>Category 1:57-55-6 (organ = blood, central nervous system, source: NITE)</p> <p>Category 3:57-55-6 (organ = narcotic effect, source: NITE)</p> <p>57-55-6 &gt;= 10% Classification result = Category 1(blood, central nervous system)</p> <p>Sum of Category 3(narcotic effect) Concentration limit = 20%. Classification result = Category 3(narcotic effect).</p>
Specific target organ toxicity – Repeated Exposure	<p>Category 1:57-55-6 (organ = respiratory apparatus, central nervous system, source: NITE)</p> <p>57-55-6 &gt;= 10% Classification result = Category 1(respiratory apparatus, central nervous system)</p>
Aspiration hazard	Unable to classify due to insufficient data.

### 12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment – Acute Toxicity	Classification not possible.
Hazardous to the Aquatic Environment – Chronic Toxicity	Classification not possible.
Hazardous to the Ozone layer	Unable to classify due to insufficient data.

### 13. DISPOSAL CONSIDERATIONS

Residual Waste	<p>Passed to a licensed waste contractor.</p> <p>Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes.</p> <p>Dispose of waste in accordance with local, state and federal regulations.</p>
Contaminated Container and Packaging	<p>Passed to a licensed waste contractor.</p> <p>In case of disposal of empty containers, remove the content thoroughly.</p>

### 14. TRANSPORT INFORMATION

International regulations	
Sea (IMDG)	Not dangerous goods
Air (IATA)	Not dangerous goods

### 15. REGULATORY INFORMATION

# Safety Data Sheet

Workplace Safety And Health

Occupational Exposure Limits

## 16. OTHER INFORMATION

Literature References

SDS of raw material

National Institute of Technology and Evaluation (NITE) GHS

Classifications List

Regulation (EC) 1272/2008 Annex VI

Regulation (EC) 1907/2006 registered substances

Other data

The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide.

The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.