

Safety Data Sheet

1. IDENTIFICATION

Product Identifier	Sb420 Black D
Product code	SB420-KD-2L / SB420-KD-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	Serious eye damage/eye irritation Category 2A Sensitization – skin Category 1A Specific target organ toxicity (single exposure) Category 2 (blood central nervous system) Specific target organ toxicity (repeated exposure) Category 2 (respiratory apparatus central nervous system)
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GHS LABEL ELEMENTS

Pictograms



Signal Word

Warning

Hazard Statements

H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H371 May cause damage to organs(blood,central nervous system)
H373 May cause 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)
Contaminated work clothing should not be allowed out of the workplace.(P272)

Response

Wear protective gloves, eye protection and face protection.(P280)
IF ON SKIN: Wash with plenty of soap and water(P302+P352)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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Storage
Disposal

rinsing(P305+P351+P338)
 IF exposed or concerned: Call a POISON CENTER/doctor(P308+P311)
 Get medical advice/attention if you feel unwell(P314)
 If skin irritation or rash occurs: Get medical advice/attention(P333+P313)
 If eye irritation persists: Get medical advice/attention(P337+P313)
 Take off contaminated clothing and wash it before reuse.(P362+P364)
 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	5-15%	C3H8O2	57-55-6
Glycerol	5-15%	C3H8O3	56-81-5
Disperse Red 60	1-10%	Secreto Comercial	17418-58-5
Other	10-20%	Secreto Comercial	Secreto Comercial
Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	<2%	Secreto Comercial	9014-85-1

4. FIRST-AID MEASURES

In case of inhalation
Call a doctor if you feel unwell.
IF exposed or concerned: Call a doctor.

In case of skin contact
IF ON SKIN: Wash with plenty of soap and water.
Take of contaminated clothing and wash before re-use.
If skin irritation or rash occurs, get medical advice and attention.
Specific treatment.
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 eye irritation persists: Get medical advice/attention.
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.

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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.

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.

Wear eye protection/face protection.

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

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

Storage

Suitable storage conditions

Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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		fraction)	
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	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.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	Black
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 ³
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.

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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	Category 1:9014-85-1 (source: Registered substances (ECHA))
	Sum of 10 x (Eye category 1 + Skin category 1) Concentration limit = 10%. Classification result = Category 2A.
Respiratory Sensitization	Classification not possible.
Skin Sensitization	Category 1A:17418-58-5 (source: Registered substances (ECHA))
	17418-58-5 \geq 0.1% Classification result = Category 1A
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	Category 1:57-55-6 (organ = blood, central nervous system, source: NITE)
	Category 3:57-55-6 (organ = narcotic effect, source: NITE)
	57-55-6 \geq 1% Classification result = Category 2(blood, central nervous system)
Specific target organ toxicity – Repeated Exposure	Category 1:57-55-6 (organ = respiratory apparatus, central nervous system, source: NITE)
	57-55-6 \geq 1% Classification result = Category 2(respiratory apparatus, central nervous system)
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

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Workplace Safety And Health	Occupational Exposure Limits
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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.