

## Safety Data Sheets

### 1. Identification

Product Name : Dye Sublimation Ink Sb53 Deep Black  
Order No. : SB53-DK-44 / SB53-DK-2L  
General Use : Ink jet printing ink  
Product Description : Sublimation ink  
SDS Number : 037-W220566  
Manufacture  
Company Name : Mimaki Engineering Co., Ltd.  
Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN  
Telephone No. : +81-268-64-2413  
Importer / Distributor Established in USA  
Company Name : MIMAKI USA, INC.  
Address : 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A.  
Telephone No. : +1-678-730-0170  
Emergency Telephone No. : +81-268-64-2281

### 2. Hazards Identification

#### [GHS Classification]

##### Physical Hazards

Flammable Liquids : Not classified

##### Health Hazards

Acute Toxicity – Oral : Category 4

Sensitization – Skin : Category 1

The above list does not include category being non-classifiable or not-applicable.

#### [GHS Label Elements]

##### Symbol



Signal Word  
Warning

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### Hazard Statements

H302 Harmful if swallowed

H317 May cause an allergic skin reaction

### Precautionary Statements

[Prevention]

P261 Avoid breathing gas/mist.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P330 Rinse mouth.

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

P362+P364 Take off contaminated clothing and wash before reuse.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.

### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Glycerol	10-25	56-81-5
2	Lignosulfonic acid, sodium salt	5-10	68512-35-6
3	Disperse Dye	2.5-5	Trade Secret
4	Water	balance	7732-18-5

### 4. First Aid Measures

Inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

Eye Contact : 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.

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Skin Contact	: 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.
Ingestion	: If swallowed, get medical attention.
Note To Physician	: Treat symptomatically and supportively.

### 5. Fire Fighting Measures

Flammable Properties	: Flash Point : >100 °C
Suitable Extinguishing Media	: CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable Extinguishing Media	: Do not scatter spilled material with high-pressure water streams.
Fire Fighting Instructions	: 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.
Special Protective Equipment and Precautions for Firefighters	: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### 6. Accidental Release Measures

Personal Precautions	: Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.
Measures for environmental protection	: Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
Measures for cleaning/collecting	: Absorb with liquid-binding material (sand, diatomite, sawdust). Send for recovery or disposal in suitable containers. Dispose contaminated material as waste according to item 13. Avoid use of solvents.

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### 7. Handling and Storage

- Handling** : Avoid breathing gas/mist. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
- Requirements to be met by storerooms and receptacles** : Ideal storage temperature: 10-30 degree C. Store in a cool location. Use only containers specifically designed for this substance/product.
- Further information about storage conditions** : Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight.

### 8. Exposure Controls / Personal Protection

#### Exposure Limit Values

No	Chemical Name		TWA
1	Glycerol	OSHA	15 mg/m <sup>3</sup> TWA (mist, total particulate); 5 mg/m <sup>3</sup> TWA (mist, respirable fraction)

#### Exposure Controls

##### Occupational Exposure Controls

- Engineering Controls** : Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

##### Personal Protection

- Respiratory Protection** : Consult with a health and safety professional for specific respirators appropriate for your use.



Vapor  
Respirator

- Hand Protection** : Wear appropriate chemical resistant gloves.



Gloves

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Eye 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.



Environmental Exposure Controls : Not available

### 9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: Black
Odor		: Weak
pH		: 8.0 at 20 °C
Boiling Point / Boiling Range		: 100 °C
Melting Point / Melting Range		: Not available
Decomposition Temperature		: Not available
Flash Point		: >100 °C
Vapor Pressure		: 23hPa at 20 °C
Relative Density 又は Specific Gravity		: Not available
Water Solubility		: Miscible
Viscosity		: 5.0 at 20 °C

### 10. Stability and Reactivity

Conditions to Avoid	: Stable under recommended storage and handling conditions.
Stability	: Stable under recommended storage and handling conditions.
Materials to Avoid	: Strong oxidizers.
Hazardous Reactions / Decomposition Products	: In case of fire, carbon and nitrogen oxides are the main combustion gases.

### 11. Toxicological Information

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Acute Toxicity	: Category 4 (Oral) as a product. Component Analysis - LD50/LC50 <b>Glycerin (56-81-5)</b> Oral LD50 Rat 12600 mg/kg; Dermal LD50 Rabbit >10 g/kg; Inhalation LC50 Rat >570 mg/m <sup>3</sup> 1 h
Eye Irritation	: Not available
Skin Irritation	: Not available
Sensitization	: May cause sensitization by skin contact.
Repeated Dose Toxicity	: Not available
Mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive and Developmental Toxicity	: Not available

### 12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it.

Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

Ecotoxicity	: At present there are no ecotoxicological assessments.
Persistence and Degradability	: Not available
Bioaccumulative Potential	: Not available
Other Adverse Effects	: Not available

### 13. Disposal Considerations

: Comply with all USA, national and local regulations. Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Do not dump this product into sewers, on the ground or into any body of water.

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### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Land Transport : Not regulated

(ADR/RID)(cross-border)

Air Transport : Not regulated

(ICAO/IATA)

Sea Transport : Not regulated

(IMDG)

Marine Pollutant : No

### 15. Regulatory Information

#### International Inventories

TSCA : All components are listed on the TSCA Inventory.

DSL : Additives Does not comply

#### Legend

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### 16. Other Information

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