

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 : 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA
30542, U.S.A.
Telephone No. : +1-678-730-0170
Emergency Telephone No. : +1 866 928 0789 (within United States only, Toll free)
+1 215 207 0061

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/vapors.

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.

(P301)+P330 (IF SWALLOWED): 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/container in accordance with

local/regional/national/international regulation (to be specified).

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. |
| 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. |

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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 : CO₂, 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.

7. Handling and Storage

Handling : Avoid breathing gas/mist. Wash hands thoroughly after handling. Do

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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/m3 TWA (mist, total particulate); 5 mg/m3 TWA (mist, respirable fraction) |

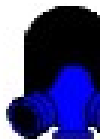
Exposure Controls

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.



Hand Protection : Wear appropriate chemical resistant gloves.



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.

Safet



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

| | |
|----------------|---|
| Acute Toxicity | : Category 4 (Oral) as a product. |
| | Component Analysis - LD50/LC50 |
| | Glycerin (56-81-5) |
| | Oral LD50 Rat 12600 mg/kg; Dermal LD50 Rabbit >10 g/kg; |
| | Inhalation LC50 Rat >570 mg/m ³ 1 h |

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| | |
|---|--|
| 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.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

| | |
|--|-----------------|
| Land Transport (ADR/RID)(cross-border) | : Not regulated |
|--|-----------------|



Product Name: Dye Sublimation Ink Sb53

Deep Black

SDS No. 037-W220566

First issue: 2012/12/20

Revised: 2025/04/09

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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

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

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